

APPENDIX B: AMINO ACID SEQUENCES

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> RXA00013 (1-873, translated) 291 residues
MEGMTNPEQT HPAASLEDMI KTITKTFVIA HDQDSDEHLA QALVYNAGRL AWRMRENGVD
TDYKTSVSDV VTDADRAAEA FVAGVLEALR PEDGVLGEEG ADRASKSGKT WVIDPVDGTY
NFTQGSQDYWC SALALVEGDP SAPSRVLFGA VHRPAMGYTW FGGPGIRTTL DGKELDLLVD
APLNQISLAT YIHPSRIAEP DIQKAWMSVA THPATLRMFG AGSIDLANIA DGSMGAWVQH
SVADWDWLPG RALIEGVGGA CIKVTAGGVE WSVAGNAEAV SEISETLSAL D

> RXA00014 (1-780, translated) 260 residues
MSKYADDLAL ALELAELADS ITLDRFEASD LEVSSKPDMT PVSDADLATE EALREKIATA
RPADSILGEE FGGDVEFSGR QWIIDPIDGT KNYVRGVPVW ATLIALLDNG KPVAGVISAP
ALARRWWASE GAGAWRTFNG SSPRKLSVSQ VSKLDDASLS FSSLSGWAER DLRDQFVSLT
DTTWRLRGYG DFFSYCLVAE GAVDIAAEPE VSLWDLAPLS ILVTEAGGKF TSLAGVDGPH
GGDAVATNGI LHDETLDRLK

> RXA00030 (1-390, translated) 130 residues
MRIEITSVFF DDQAKALDFY TTKLGFELKH DVTAGDYRWL TVVDPENPDG VQLLLEPNQH
PDAATYQAGI KRDGIPATQF YVDDVQEEYD SLKDKGVDFI MEPTDVGPSV IAILDDTVGN
LIQIVQLKQN

> RXA00032 (1-1509, translated) 503 residues
MNTPLQLNTE NLQEIASTSG VQIPAFNRAD VAPGIVHFGV GGFHRAHQAM YLNELMNEGK
ALDWGIIGMG VMPSDVRRMD ALASQDHLTY LTTKAPDGTI DQKIIGSIID YVFAPEDPAR
AVATLAQDSI RIVSLTVTEG GYNIDPATED FDHTNPRIVA DREALQAGDT STLQTFFGLI
TAALISRKES GSTPFTIMSC DNIQGNGLA KRFFLAFAHS VSSELGEWVE NNVAFPNSMV
DRITPETTDG DRDDIKEIGY IDAWPVVSED FTQWVLEDAF TQGRPAYEEV GVQVVSDEVP
YELMKLRLLN ASHQGLCYFG HLAGHHMVHD VMADTRFQDF LLAYMEREAT PTLKELPGVD
LDAYRRQLIA RFGNAAVKDT VPRLCAESSE RIPKWLLPVV RENLAAGRDV TLSAAIVASW
ARYAEGTDEQ GNPIKIVDRL SERVQENASG NRTDILSFIR DRGIFGDLVD AEPFTKAYSE
TLSSLHDRGA EATIDALLTQ VTV

> RXA00038 (1-1158, translated) 386 residues
MSFAEHAIW HVYPLGALGA PIRPEAPAPV THRLPNLIGW LDYVVELGCN ALMLGPVFES
VSHGYDTLDF YRIDPRLGTE EDMDALLEAA NQRGIGVLFV GVFNVHSSSS KYLDLTTGAS
FEGHDILAEI DHTNPAVVDL VVDVMNHWLD RGIAGWRLDA VYAIAPFEWE KVLPEVRRKH
PHAWIVGEMI HGDYSYVKS SGIDSVTEYE LWKAIWSSIK ERNFFELEWT LSRHNEFLDT
FVPQTFIGNH DVTRIATRIG QSNAILAAAI LFTVGGTPSI YYGDEQGFTG LKEDNVFGDD
AIRPPLPAEF SPLGTWIENI YKALIALRRQ HPWLYQAHE VLEIANEAMT YKSVGLGSEE
LTVHLDLEE SVRILDGEKV LFQYSA

> RXA00041 (1-1242, translated) 414 residues
MHTELSSLRP AYHVTTPQGR LNDPNGMYVD GDTLHVYYQH DPGFPFAPKR TGWAHTTTPL
TGPQRLQWTH LPDALYPDAS YDLGDCYSGG AVFTDGTLLK FYTGNLKDID KRRATQNLVE
VEDPTGLMGG IHRRSPKNPL IDGPASGFTP HYRDPMISPD GDGKMWLGA QRENLTGAHV
LYRSTDLNFW EFSGEITFDL SDAQPGSAPD LVPGGYMWEC PNLFTLRDEE TGEDLDVLIIF
CPQGLDRIHD EVTHYASSDQ CGYVVGKLEG TTFRVLRGFS ELDFGHEFYA PQVAVNGSDA
WLVGWMGLPA QDDHPTVARE GWVHCLTVPR KLHLRNHAIY QELLPEGES GVIRSVLGSE
PVRVDIRGNI SLEWDGVRLS VDRGGDRRVA EVKPGELVIA DDNTAIEITA GDGQ

> RXA00042 (1-759, translated) 253 residues
MDIICKDEQ EVGKAAAALI APFATKGGTL GLATGSSPLS TYQELIRMYE AGEVSFKNCK
AFLLEDEYVGL TRDDENSIFYK TIRKEFTDHI DIVDEEVYSP DGANPDPEYA AAEEYAKIAA
ESVDVQILGI GGNGHIAFNE PSSSLSGLTK VQALHPKTVE DNARFFNTIE EVPTHALTQG
LGTLSRAQNI VLVATGEGKA DAIRGTVEGP LTAMCPGSIL QMHNNATIIV DEAAASKLEN
ADHYRLMEQL KLR

> RXA00043 (1-1164, translated) 388 residues

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MAEVVHYQEN AGQAVKKIEG RIVTPHGVID GFLQLENGII TELSGEPAPK NAGFHPPELPT
 IVPSFIDLHN HGGNGGAFPT GTQDQARNAA QYHREHGTTV MLASMVSAPA DALAAQVENL
 IPLCEEGLLC GIHLEGPFIN ACRCGAQNPDL FIFPGNPTDL AQVIHAGKGW IKSITVAPET
 DNLTELLDLC AAHHIIASFSG HTDADFDTT SAIALAKEKN VTVTATHLFN AMPPLHHRDP
 GSVGALLAAA RAGDAYVELI ADGVHLADGT VDLARSNNAF FITDAMEAAG MPDGEYILGV
 LNVTVTDGVA RLRDGGAIAG GTSTLASQFV HHVRRGMTLI DATLHTSTVA AKILGLSDHE
 IVKSNPVNFV VFDSNGQLQQ VHLDHQVI

> RXA00055 (1-138, translated) 46 residues
 VDVVDIARWQ FGITTVYHFI FVPLTIGLAP LVAIMQTFWQ VTGKEH

> RXA00098 (1-1620, translated) 540 residues
 MADISTTQVW QDLTDHYSNF QATTTLRELK EENRAEKYTF SAAGLHVDLS KNLLDDATLT
 KLLALTEESG LRERIDAMFA GEHLNNTEDR AVLHTALRLP AEADLSVDGQ DVAADVHEVL
 GRMRDFATAL RSGNWLGHGT HTIKKIVNIG IGGSDLGPAM ATKALRAYAT AGISAEFVSN
 VDPADLVSVL EDLDAESTLF VIASKTFTTQ ETLSNARAAR AWLVEKLGEA AVAKHFVAVS
 TNAEKVAEFG IDTDNMFGFW DWVGGGRYSVD SAVGLSLMAV IGPRDFMRFL GGFHAMDEHF
 RTTKFEENVY ILMALLGVWY SDFYGAETHA VLPYSEDLSR FAAYLQQLTM ESNGKSVHRD
 GSPVSTGTGE IYWGEPTNG QHAFFQLIHQ GTRLVPADFI GFARPKQDLP AGERTMHDLL
 MSNFFAQTKV LAFGKNAEEI AAEGVAPELV NHKVMGPNRP TTTILAEELT PSILGALIAL
 YEHIWMVQGV IWDINSFDQW GVELGKQQAN DLAPAVSGEE DVDSGDSSTD SLIKWYRANR

> RXA00148 (1-1998, translated) 666 residues
 MTSIPNFSID PLTAETRASE SHNVDAKGVW NTPEGIDVCR VFTQADRDEA QAAGHPVDSL
 PGQKPFMRGP YPTMYTNQPW TIRQYAGFST AAESNAFYRR NLAAGQKGLS VAFDLATHRG
 YDSDNERNVVG DVGMAVAID SILDNRQLFD GIDLSSVSVS MTMNGAVLPI LAFYIVAAEE
 QGVGPEQLAG TIQNDILKEF MVRNTYIYPP KPSMRIISNI FEYTSKMPR FNSISISGYH
 IQEAGATADL ELAYTLADGI EYIRAGKEVG LDVDKFAFRL SFFWGISMVY FMEIAKLKRG
 RLLWSELVAK FDPKNKASQS LRTHSQTSVG SLTAQDVYNN VARTAEIEMA ATQGHQSLH
 TNALDEALAL PTDFSARIAR NTQLLLQOES GTVRPVPDPA GSYYVEWLTN ELANRARKHI
 DEVEEAGGMA QATAQGIPKL RIEESAARTQ ARIDSGRQAL IGVNRYVAEE DEEIEVLKVD
 NTKVRAEQLA KLAQLKAERN DAEVKAALDA LTAAARNEHK EPGDLQNL KLAVDAAKAK
 ATIGEISDAL EVVFGREHAE IRTLSGVYKD EVGKEGTVSU VERAIALADA FEAEEGRRPR
 IFIAKMGQDG HDRGQKVVAS AYADLGMDVD VGPLFQTPAE AARAAVDADV HVVGMSSLAA
 GHLTLL

RXA00149 (1-1848, translated) 616 residues
 LTDLTKTAVP EELSENLETW YKAVAGVFAR TQKKDIGDIA VDVWKKLIVT TPDGVDINPL
 YTRADESQRK FTEVPGEFPF TRGTTVDGER VGWGVTEFTG HDSPKNINAA VLNALNSGTT
 TLGFEFSEEF TAADLKVALE GYVLNMAPLL IHAGGSTSEV AAALYTLAEE AGTFFAALTL
 GSRPLTAQVD GSHSDTIEEA VQLAVNASKR ANVRAILVDG SSFSNQGASD AQEIGLSIAA
 GVDYVRRLLD AGLSTEAAALQ QVAFRFAVTD EQFAQISKLR VARRLWARVC EVLGFPPELV
 APQHAVTARA MFSQRDPWVN MLRSTVAFA AGVGGATDVE VRTFDDAIPD GVPVSRNFA
 HRIARNTNLL LLEESHLGHV VDPAGGSYFV ESFTDDLAEK AWAVFSGIEA EGGYSAACAS
 GTVTAMLDQT WEQTRADVAS RKKKLTGINE FPNLAESPLP ADRRVEPAGV RRWAADFEAL
 RNRSDAFLEK NGARPQITMI PLGPLSKHNI RTGFTSNLLA SGGIEAINPG QLVPGTDafa
 EAAQAAGIVV VCGTDQEYAE TGEGAVEKLR EAGVERILLA GAPKSFEGSA HAPDGYLNMT
 IDAAATLADL LDALGA

> RXA00195 (1-561, translated) 187 residues
 VTKKILILGS TGSIGTQALD VIADNSDKFE VVGIAAGGSQ PDLVISQAQQ LGLAADKVAV
 ADAQAAAVIS KALGGEIISG TDAAKILVET TKADTVLNAL VGSLGLAATL ATLESGAHLA
 LANKESLVAG GEFVTSKAKL GOIIPVDSEH SAMAQCLRSG TRDEVARIVL TASGGPFRAF
 PGRRGR

> RXA00196 (1-615, translated) 205 residues
 MWEVTPEQAA AHPTWAMGQM NTLNSATLIN KGLELIEATL LFETDADLID VTVHPQSIIH
 SMITFTDGAT IAQASPPSMK LPIALALDWP HRVPKAQPAL DFTAAHTWAF EPVDDAAFFA
 VQLARHVAKV KGTYPAVYNA ANEEAAEAFL RGRIKFPQIV DVVDEVLQGA SQFAGVASHV
 DDILATESEA RARANALINR LATNL

> RXA00202 (1-942, translated) 314 residues
 MYARKLIALS ASVVLAFLSLS ACNRESSGTS ADGGSADGSI TLALSTQTNP FFFVQLRDGAQ
 EKADELGVTL NVQDASDDAA TQANQLNNAV TTGAGVVIVN PTDSDAVVPS VEALNQADIP
 VVAVDRSSNG GEVASFVASD NVAGGAQAAA ALAEAIGGEG EILMLQGIAG SSASRDRGQG
 FEEEIAKHEG ISIVAKQTAN FDRGEGLDVA TNLLQAHNV KAIFAENDEM ALGAIEALGA
 RAGEDVIVVG FDGTNDGLAA VEDGRMLATV AQQPEELGAK AVEEAAKLLR GEDAETEVPV
 EVVTVKLDNV ADFK

> RXA00206 (1-1038, translated) 346 residues
 MEDMRIATLT SGGDCPGLNA VIRGIVRTAS NEFGSTVVGY QDGWEGLLGD RRVQLYDDED
 IDRILLRGGT ILGTGRLHPD KFKAGIDQIK ANLEDAGIDA LIPIGGEGTL KGAKWLSDNQ
 IPVVGVPKTI DNDVNGTDFT FGFDTAVAVA TDAVDRLLHTT AESHNRVMIV EVMGRHVGWI
 ALHAGMAGGA HYTVIPEVPF DIAEICKAME RRFQMGEKYG IIVVAEGALP REGTMELREG
 HIDQFGHKTF TGIGQQIADE IHVRLGHDVR TTVLGHIQRG GTPAFDRVL ATRYGVRAAR
 ACHEGSFDKV VALKGESIEM ITFEEAVGTL KEVPFERWVT AQAMFG

> RXA00224 (1-951, translated) 317 residues
 MSISYVLVEQ LDGRPEPVTI ELITAARALG DVVAVVVGEP GAGVNLAAEL GNWGAAQVVS
 AEISGASNRL ILPAVDALHI LAANNPGPIV IAATASGNEI AGRLAARLAS GVLTDVVGIN
 ADRTAQQSIF GDTIQVSAAV GGASPLYTLR PGALDGVAVP ATGELATIEI PGATAKDVTI
 TSFTPTSTQSD RPELPQAKVV IAGGRGVGSE ENFRSIVEPL ADALGGAVGA TRDAVDLGYY
 PGEYQVGQTG VTVSPDLYIG LGISGAIQHT SGMQTAKKVI VINNDEDAPI FQIADLGVVG
 DLFDIAPALI EEINKRK

> RXA00225 (1-786, translated) 262 residues
 MSTIVVLVKN VPDTWSKRTL EADFTLDREG VDRVLDEINE FALEQALRLR ESNPDAGYRV
 VALSAGPAGG EEALRKALSM GADEAIQLSD DALAGS DLLG TAWALNNAIN TIAGVALIVT
 GSASSDGSMD ALPGVLAEYR QVPALTNLSA LKVEGASITA TRIDNHGTYE LQAALPAVVS
 ISDKADKPRF PNFKGIMAAK KAEIKKLSLA EIGVAPEQVG LSHAATAVTA AADRPERSQG
 DVIGASGAAE KIAEYLASEN LI

> RXA00235 (1-1275, translated) 425 residues
 VAEIMHVFAR EILDSRGNPT VEADEVFLDDG SHGVAGVPSG ASTGVHEAHE LRDGGDRYLG
 KGVLKAVENV NEEIGDELAG LEADDQRLID EAMIKLDGTA NKSRLGANAI LGVSMVAKA
 AADSAGLPLF RYIGGPNHV LPVPMNIIT GGAHADSGVD VQEFMIAPIG AETFSEALRN
 GAEVYHALKS VIKKGLSTG LGDEGGFAPS VGSTREALDL IVEAIEKAGF TPGKDIALAL
 DVASSEFFKD GTYHFEGGQH SAAEMANVYA ELVDAYPIVS IEDPLQEDDW EGYTNLTATI
 GDKVQIVGDD FVVTNPERLK EGIAKKAANS ILVKVNQIGT LTETFDVAVDM AHRAGYTSMM
 SHRSGETEDT TIADLAVALN CGQIKTGAPA RSDRVAKYNQ LLRIEQLLGD AGVYAGRSFAF
 PRFQG

> RXA00246 (1-1035, translated) 345 residues
 MTTAAPQEFT AAVVEKFGHD VTKVDIDLK PGP HQALVKV LTSGICHTDL HALEGDWVPK
 PEPFVPGHE GVGEVVELGP GEHDVKVGD VGNWLWSAC GTCEYCITGR ETQCNEAEYG
 GYTQNGSFGQ YMLVDTRYAA RIPDGV DYLE AAPILCAGVT VYKALKVSET RPGQFMVISG
 VGGLGHIAVQ YAAAMGM RVI AVDIADDKLE LARKHGAEFT VNARNEDSGE AVQKYTNNGA
 HGVLVTAVHE AAFGQALDMA RRAGTIVFNG LPPGEFPASV FNIVFKGLTI RGSVLGTRQD
 LAEALDFFAR GLIKPTVSEC SLDEVNGVLD RMRNGKIDGR VAIRF

> RXA00251 (1-708, translated) 236 residues
 MKKKIAVVTG ATGGMGIEIV KDLSRDHIVY ALGRNPEHLA ALAEIEGVPEP IESDIVKEVL
 EEGVDKLN LDHVDTLVHA AAVARDTIE AGSVAEWHAH LDLNVIVPAE LSRQLLPALR
 AASGCVIYIN SGAGNGPHPG NTIYAASKHA LRGLADAFRK EEANNGIRVS TVSPGPTNTP
 MLQGLMDSQG TNFRPEIYIE PKEIANAIRF VIDAGETTQI TNVDVRPRIE LADRKD

> RXA00268 (1-831, translated) 277 residues
 MARGFFLGAT AGRTTLTGEG LQHMDGHSPV LASTNEGVET YDPSFAYEIA HLVHRGIDRM
 YGPGKGEDVI YYITIYNEPT PQPAEPEGLD VEGHLKGIYL YSRGEGTGHE ANILASGVGM

QWALKAASIL EADYGVIRANI YSATSWVNLA RDGAARNKAQ LRNPGADAGE AFVTTQLKQT
SGPYVAVSDF STDLPNQIRE WVPGDYTVLG ADGFGFSDTR PAARRFFNID AESIVVAVLN
SLAREGKIDV SVAAQAAEFK KLDDPTSVSV DPNAPPEE

> RXA00288 (1-1011, translated) 337 residues
MSAQMDTPDP TMSAVAMLDL IPSDQPDFLI DVEVDRPTPG PHDLLVHIEA VSINPVDTKV
RMRAGKQKHP KILGFDAAGE VVAVGSQVTL FNVGDKVFYA GSNQRPGSNA EYQVVDRLV
GHAPQSLGAH DAAALPLVAL TAWESLFDRL GVTQSTTGTL LVLGGSGGVP SALIQLARAL
TGLKVVATAS RPESQEWVTK LGAHEVIDHS KDLSEQISDV DFFVSSWTTG REVELATLMK
PQSHLVLDL PVDPNLGAFK QKAIALHWEF MFTRAMFNTD DMGEQKGILN KIADMVDRGQ
FESVTATVLD GLNAANIMEG HRLVEQGKTS GKIVVRV

> RXA00290 (1-963, translated) 321 residues
MTIDLQRSTQ NLTHEEIFEA HEGGKLSISS TRPLRDMRDL SLAYTPGVAQ VCEAIKEDPE
VARTHTGIGN TVAVISDGTA VLGLGDIGPQ ASLPVMEGKA QLFSSFAGLK AIPIVLVDVHD
VDALVETIAA IAPSFGAINL EDISAPRCFE VERRLIERLD IPVMHDDQHG TAVVILAALR
NSLKLLDRKI EDLKIVISGA GAAGVAAVDM LTNAGATDIV VLDSRGIIHD SREDLSPVKA
ALAEKTNPRG ISGGINEAFT GADLFIGVSG GNIGEDALKL MAPEPILFTL ANPTPEIDPE
LSQKYGAIVA TGPVLTCLTR S

> RXA00293 (1-912, translated) 304 residues
MKIFVGFQDY PLTTKALKEA GAEIVDSLEK AEGFVFTQTP GTEFPLLPDG VRWVQFPNAG
LNAYFTAGQI DDKRRWSNAS GVGQQVAEA AMALLGLIH MHPTMVRADS WAPSTQIDQQ
TRWLDGATVA IVGAGGIGKH LAAMLKPFKA KSLAVSRTGT PTQDFDATEP ISNLHQVLAD
ADHVVLCPVPL TADTYHLIGK AELKAMQSTA ILINVARGEV VDTEALVDAL DAQEISGAGL
DVTDPPEPLD DHPLWGRSNV IITPHVANTL TSMRMLAPV VAENYRRFLA GEKMLTEVDI
HKG

> RXA00296 (1-2835, translated) 945 residues
TIKFNRLDPE VFSQHSRAKL RTDMTTAAAY SSDAGIFRRV PAAVAEPENV EQIRDAIAVA
VARGWSVVR GGGSSVAGNA IGEGLIIDTS RYFNRIIDID PVAQTAVVEP GVVCDALRDA
AAEFGLTYGP DPSTHSRCTI GGMVANNACG SHSVAFGTAA ENLVDVTLML SDGREVTVTK
DGCDDAEINQ KLTDLASKNQ DLISKELGRF PRQVSGYGLH YLAHDMAMAM AGTEGTIGII
TRLTVKLVPT PKVKALAVLA FDTVFDAARA AAKLRLPGVA TIEGMGGDLL AALRSKQGS
EAGQNLPGNR IGIEAGGWLY CETGSDTLQA AVQAAEEVAT AVDTIDYVVV SEPSEMRELW
RIRESSAGIV TRLADGGEAW PNWEDSAVPP ENLADYLRDL YALMDKFDYQ GIPFGHFEGE
CVHVRISFDF STKEGLKKFE AFMNEASTLV ASYGGSLSGE HGDGRARSSF LDRMYSAMER
ALFEFELKIF DPQRIFNPGV LVWADPVMQG LRMDPGQAL DITPVHKFSK DKGSMINAVN
RCVGVSAARS ESDAMCPSFQ ITGDEVHSTR GRARLLSEMF RGEIADGYR SEEVNEALDL
CLSCACASE CPVNVDMSTY KAEFLDKHYA GRLRPMHYV MGWLPLLGHV AHKIPLPLTL
IDATMQSALT APVVRKVGGL ADRPLISFAH RSLRKYKPKK NSGETVVLWP DSFNTNLDTG
PAHAAIKTLE ALGYNVVIPD GFVCCGLTWH STGQLSMTKK VLEQTAKVMK PYLDQGLTVV
GLEPSCTVML QDEATELSDN PDLARLAALT KPFAEVIAPK ITELVEGSL QLTESTALTQ
VHCHERSLGD PQQSALVLEA LGVKDEQIAT GCCGLAGNWG FEKDHAEMSF ALGERELFPK
VRKAEGHVIA DGFSCRTQIE QGTGKQATHL AEVVLISILEQ NNMAQ

> RXA00309 (1-312, translated) 104 residues
MGQCTVALYR EHSYYTATPW RGTWAADGGG VLMTQAIHYI DLLYWLLGEP VEVFGYTNSF
KHGDNIEVED SAVATVRFES GALATISATT AAEPALGAQV QVMG

> RXA00310 (1-435, translated) 145 residues
MSDKIWKVGI IGCGAISRNH IEAVQAIPGA EVSAVCDVDG AKASETAAY GISPSFTSVD
EILASGVDIV AVCTPHPTHE TVVLA AAAAG VHVLCCKPIA IELDSAQRM DACESAGVQL
GVLFQRRFWP AAQKMKKEPS WANAR

> RXA00317 (1-339, translated) 113 residues
VTPPSKKTLL FDLDTGLVDS FPGIRTSFLH TLHEKNWEIP SEERISQVPG PPMWTFQDL
GMTPEQAQDA LQTYLEHYGQ VGWDLSEAFP GMRDLIPLI YEGFRLCTAT FQG

> RXA00327 (1-384, translated) 128 residues
 MIQAALWIVL FLFADRLSNP LVFVSAIMFA ISFSSPVANF GFDTICEKLD RRVMVAGTGM
 ANMSAYICAM LATQIIGFLL DWNADGHAYT WSNFQVAWLG LGAVWLAGMI GLAVCLLLQR
 RKNIAFR

> RXA00328 (1-492, translated) 164 residues
 VGVERGKVSA KALVVWLTAM CVYIVAIAGR TSFGVAGVHA IDRFDIDASR LAVFTSVQVG
 VYVLAQIPMG MLVDRFDARK LLLAGALILA AGQLILGFTD SYMIAIFARV LISVGDSSAF
 LSMRLLPNW FPMSTPVLQ QLTGAFGFVG QFSRCRFT YSTP

> RXA00329 (1-1224, translated) 408 residues
 MAAITSRTSF GVAGVEAIDR FQVDATRIAV FTSVQVGUYA FAQIPMGILI DKFGPRKLLA
 IGALVMGIGQ LILGFTDSYS IAIARVFIG AGDASIFLSV MRILPFWFPL KHTPIFTQLT
 TCLGQLGQFF SAVPFMALLG AQGWPAFVS LGSVVALIAI AALVAVRDTF DPQPKPVESA
 QEADKPSLRA SLKLIVRNPI TWQGFHIVY LMVWQTVFSM MWGVPLMTLG MGLSATTAGL
 VLSINTLCMV VSAPIIGIIS ARLGYRRDVV AIALSFVQSA VWLVFLASDA PRGLMAIILV
 NIVMGLTTAA SGYGFDTIRE RLDRKILAAG TGLANMGGFL SSMVAAQVMG FLLDHSAGS
 TYTWVDFRFG FLAILVTWAV GVTGFVVARL KGGPGRLLA QIRSTKDF

> RXA00340 (1-1146, translated) 382 residues
 VKLVIEADGG SRGNPGVAGS GTVVYSDNKA EVLKEIAYVV GTKATNNVAE YRGLLEGLKA
 ARELGATSVD VYMDSKLVVE QMSGRWKIKH PDMKVLAIEA KEIASEIGSV SYTWIPREKN
 KRADALSNVA MDAAAAGKPV GVVGDSASVS SASSVAGSEK EDLNCTETKP TNWNGATTD
 TRFLLLRHGG TAMSVARLYS GRSNPSELSEL GEKQAAAAAR RLAQTGGIDA IVSSPLTRM
 QTAEAAAAAL GMKVRVIDDL IETDFGLWDG KSFSEAEHQD PELHTKWLT DSSVAPPGGES
 LQTVNRRVKK ARESLQREYG AANVLVVSHV TPIKAIMRQA LDAGPSFFQK AHLDLASLSI
 AEFYEDGPTC VRLFNDTSHL EA

> RXA00379 (1-207, translated) 69 residues
 MSEIVVAQSI GQQFADVAAS GPLFLGILAA ALAGLVSFAS PCVVPLVPGY ISYLAGVVGG
 EVEYSAHAT

> RXA00381 (1-606, translated) 202 residues
 MTQTIVHLVR HGEVHNPEKI LYGRMPGYRL SSRGRSQAAR TAASFEGHDV TYIAASPLQR
 VQETSEPFIK VTGLELITDE DLLEAGNRFE GLRTKGWRSQ LWNPVVRWPLM YNPTLPSWGE
 HYTDILERRM AAVERRAVAA EGHEAILVTH QLPIVCVQRH ARGQSLSHNP ATRQCDLASV
 TSLVFQDDQI VGVHYNEPAQ EI

> RXA00385 (1-339, translated) 113 residues
 LGGVFALGWT PCLGPTLAAI ISISAGTEGM TAARGVILIV GYCLGLGLPF LLIALGSSKA
 LTGVEWLRKH SRTLQIIGV FLILVGVALL SGSWAIFINW VRQWTVEYGA TLL

> RXA00386 (1-510, translated) 170 residues
 MLPVNQTYAQ FSDTAFVSAY IIVVLALILS LVYYVKQQGI IDARREQTRV SELVGAGGSA
 DVTDLPPDI ADGVLADEDL AKREETARKL ANMTQSLMWL GVMVHLVSIV MRALSASRFP
 FGNLYEYILM VTLFAMIGAV LILQRPQFRV VWPWILTPMA GTWFSTVAPS

> RXA00388 (1-303, translated) 101 residues
 TLDNLAYKTA IWTVPIFGLG IILGAIWAEA AWGRFWGWD KETVSFITWV LYAGYLHARA
 TAGWRNTNAA WINILALVTM IFNLFFINMV VSGLHSYAGL N

> RXA00406 (1-975, translated) 325 residues
 DPVEVAADTQ EMIITRIIDN ASVQAASVLR RPSVSSARAMA QVRPVTGGRG ASVFGLPGRY
 AAWEAALANG TAVRELDHFD TFLAAEYSHG GDNIPPILAA AQQAGKGGKD LIRGIATGYE
 IQVNLVRGMC LHEHKIDHVA HLGPSAAAGI GTLLDLVDVT IYQAIGQALH TTTATRQSRK
 GAISWKAFPA PAFAGKMSIE AVDRAMRGEA APSPIWEGED GVIAWLLSGL DHIYTIPLPA
 EGEAKRAILD TYTKEHSAEY QSQAPIDLAR SMGEKLAAQG LDLRDVDSIV LHTSHHTHYV
 IGTGSNDPQK FDPDASRETL DHSIM

> RXA00427 (1-432, translated) 144 residues

LLPGIASLFN GALISAYAME RIGVPDYRLF IRGDEVEYHR RLVRSGLPFG TCLTTAYLHP
DGSDEFKPII GGRMHTQYPD NDFKRFFTYR NRGYLMSQPG MRKLLPQEYA RFAWFFLVQK
RDVKGFREWL RLHKLGRDEK FNRP

> RXA00483 (1-1464, translated) 488 residues
VLVTGATGYI GGRLITELLA AGFQVRATSR KKTSLQRFDW YEDVEAVEAD LTDATELDTL
FKDQDVVYYL VHSMMGGKNVD FEEQEQRAT E NVIQAADQAG IKQIVYLSGL HPRNRKIEEL
SKHMRSREKV AQILLAGQTP ALILRAATII GSGSASFEII RHLTERLPRM IAPQWITNQI
EPLAIRDVLH YLISAADLKD PVNRSCDIGC GKSSEFADLL RIYADVRGLK RHNVSVPNLN
PMDKLSGLWI SLVTPVPFQL SFPLAQSMAS DAVTEEHSIK DIISDPPDGF IEYREAVELA
LAAEFDRGVP TSWDRSWTVQ QPWAGQPTDP EWAGKAVYED VRTEDTDLRA AQVWPIIEGL
GGVNGWYSAP LLWRLRGIAD RLIGGPGLGG RRDPRHLKLG DRIDWWRVTE IDPPHRLVLT
AEMKVDGGAW LILEVADKEN GGCTYTQRAI FEPKGLPGYL YWWVVSFPHA IIFPYMRSNI
LKAARKLT

> RXA00511 (1-513, translated) 171 residues
ELRKNTLVGT VMSNLGLKIA MDEAGITLRT TKVGDRYVLE DLNAGGFSLG GEQSGHIVLP
DHGTTGDGTL TGLSIMARMA ETGKSLGELA QAMTVLPQVL INVPVSDKST IVSHPSVVAA
IAEAEAEELGA TGRVLLRASG TEELFRVMVE AGDKEQARRI AGRLAAVVAE V

> RXA00512 (1-618, translated) 206 residues
MSSATTTDVR KGLYGVIADY TAVSKVMPET NSLTYRGYAV EDLVENCSEF EVFYLLWHGE
LPTAQQLAEF NERGRSYRSL DAGLISLIHS LPKEAHPMDV MRTAVSYMGT KDSEYFTTDS
EHIRKVGHTL LAQLPMVLAM DIRRRKGLDI IAPDSSKSA ENLLSMVFGT GPESPASNPA
DVRDFEKSLI LYAEHSFNAS TFTARV

> RXA00514 (1-408, translated) 136 residues
HERSYAPERA LRRETIELWN KISTVEDPEW TRRYHSVDP A EKAFGARAVI TFKDGTVVED
ELAVANAHPL GARPFAREQY IQKFRTLAEG VVSEKEQDRF LDAAQRTHEL EDLSELNIEL
DADILAKAPV IPEGLF

> RXA00517 (1-1041, translated) 347 residues
MPEVTVNAQQ LTVLCTDILT KTGVPAADAH LVGDSLVQAD LWGHPSHGVL RLPWYVRR LH
SGAMTTHAHV EVLNDLGAVL ALDGHNGIGQ VLADHARKEA VTRAMMFGIG AVSVRNSNH F
GTAMYYTRKA AAQGCVSILT TNASPAMAPW GGREKRIGTN PWSIAAPFGE TATVVDIANT
AVARGKIYHA RQTNMPIPEP WAITSEGAPT TDPAEAINGV VLPMAGHKGY AISFMMDVLS
GVLTGSQHST KVHGPYDPTP PGGAGHLFIA LDVAAFRDPQ DFDDALSDLV GEVKSTPKAQ
NTEEIFYPGE SEDRAHRKNS AHGISLPEKT WMELQELAIE NHVVTHR

> RXA00518 (1-297, translated) 99 residues
VLPVLAARHD GEKWVAMYEN MRDAMDARTG IKPNLDFPAG PAYHLLGFPV DFFTPLFVIA
RVAGWTAHIV EQYENNSLIR PLSEYN EEGE REVAPIEK R

> RXA00521 (1-1059, translated) 353 residues
LDAADEVQIK HIAADGTETI LKDSLKLLEG EVLDGTVLSA KALDAFLLEQ VARAKAEGIL
FSAHLKATMM KVSDPIIFGH VVRAYFADV AQYGEQLLAA GLNGENGLAA ILSGLES LDN
GEEIKAAFEK GLEDGPD LAM VNSARGITNL HVPSDVIVDA SMPAMIRTSG HMWNKDDQEQ
DTLAIIPDSS YAGVYQTVIE DCRKNAGAFP TTMGTVPNVG LMAQKAEY G SHDKTFRIEA
DGVVQVSSN GDVLIEHDVE ANDIWRACQV KDAPIQDWVK LAVTRSRLSG MPAVFWLDPE
RAHDRNLASL VEKYLADHDT EGLDIQILYP VEATQLSIDR IRRGEDTISV TGN

> RXA00606 (1-1749, translated) 583 residues
MASVPPLLGF VSKEGMITAF MDAPIGNSYV VLLLVGAAIG AVLTFTYS AK LVLGAFVDGP
RDMSHVKEAP VSLWLP AALP GLMSLPLVLV LSLFDAPVSA AATSAAGEAA HMHLALWHGI
NTPLLISLGV LVAGILGVLF RKELWKIAET SPFP IATGND ILSMLVYRAN LLGKFFGRMA
DSMSPRRHLV SLIVLLWALA AFATIHPSVQ LAPKQPGIDR WIDLIP LAII ALSVFGLLTT
RNRLSAAVLV GTVGVGVSFQ MLLL GAPDVA LTQFLVEGLV VVIIMMVVRH QPANFKRIKP
SRRRSTVLVA VLAAFAAFMA VWGLLGRHER SELAMWYLNQ GPEITSGANV VNTILVEFRA
LDTLGELSVL GMAAVVIGAM VASMPRH PFA KGTHPRPFGQ SQLNSIPLRM LLKVLVPALC
FLSFMVFMRG HNDPGGGFIA ALIAGGALML LYLSKAKDGR IFRPNVPFIL TGAGILMAVF

SGVLGLTHGS FLYAIHFNFV GQHWTTSMIF DLGVYLAVLG MVSMAINGLG GYLRLPGTDNA
DLDYARRSGP LPATPTVEPE PEGDEDWPEP INPAGDNKEE ANR

> RXA00608 (1-765, translated) 255 residues
MAMDVLLPIF VAVPLAASAI AVLLPWRLIR DILHIIVPFA GIFAGIWLFA HTAEHGPIAH
NVGLYVGGVA IPFAADTFSA IMLITTSIVA VAANWFATIV GETRARFYPA LTLMLITGVN
GALLTADLFN FFVFIEVMLL PSYGLIAMTG TWARLASGRI FVLVNLSAST LLVAGVGIVY
GVIGSVNIAA LQDVVEGNPL VASAMGIVVI AIAVKAGVFP VHTWLPRTYP GTSAAVMGLF
SGLHTKVAVY MLYRI

> RXA00635 (1-921, translated) 307 residues
GTDFPYSDFL PKDNVAQVDI NGAHIGRRTT VKYPVTGDVA ATIENILPHV KEKTDRSFLD
RMLKAHERKL SSVVETYTHN VEKHVPIHPE YVASILNELA DKDAVFTVDT GMCNVWHARY
IENPEGTRDF VGSFRHGTMA NALPHAIGAQ SVDRNRQVIA MCGDGGGLGML LGELLTVKLH
QLPLKAVVFN NSSLGMVKLE MLVEGQPEFG TDHEEVNFAE IAAAAGIKSV RITDPKKVRE
QLAEALAYPG PVLIDIVTDP NALSIPPTIT WEQVMGFSKA ATRTVFGGVV GAMIDLARSN
IRNIPTP

> RXA00679 (1-1266, translated) 422 residues
MNTSAETGIL IIGANQSGVQ LAISLRATGF TESITLLGEE DHRPYQRPAL SKEFLQDKID
KERLIFRSNE YWEENNIRLV KGVRIERIEK NDDGSGVAYG AGQEFAFRRL ALAVGARPRH
LDLPGATLEG VTYLRNADDA LALKAMIGSV TDAVVVGGGF IGLEAACSLH DLGKNVTVLE
YGPRLIGRAV GEETAFFLE QHRSRGVNIV LDARMKQFVG KDGKLSGIEL EDGTVIPAQL
VIVGIGVIPN TELA AVLGLD INNGIVVDKH AVASDGTIA IGDVANIPNP IPGSPADERI
RLESVNNAIE HAKIAAYSLV GQPEAYAGIP WFWNSQGDLE LQIAGLTLGY DSTVIRQDPE
KKKFSVLYYR GDNIIAADCV NAPLDFMAVR SALSRNQNP ADLAADISQP LKKLAVDLEV
TR

> RXA00680 (1-318, translated) 106 residues
MSTIHFIHDA GKTRTIEATV GDSVMEATVR NGVPGIVAEC GGSLSCATCH VFVDPAQYDA
LPPMEEMEDE MLWGAAVDRE DCSRLSCQIK VTEGMDLSLT TPETQV

> RXA00682 (1-1899, translated) 633 residues
MANKSFPKPS DLPVPKGAEG WEDLYPYLV FQDKLMDQEN EKFWFCDSQH WPTVFKPFET
IGGEFAVKCL GQYNARHLMI PNANGIEFRV HLGLYMSPI PVPEDQIAER VPMFQERITH
YFQNWEPMLA NWKERVLTGI NELESLEFKP LPDYVPIDDI VSGKAKDGTE VLMENFDRLI
QLAYQNWQYH FEFLNLGYIA YLDFNFCKE VFPDIPDQSI SMMVQGVDM E LFRPDDELKI
LAQLAVDLGL QTHFANPDDP QATLAAIAKA EGGATWIARW EEAQDPWFNF TVGNGFYGHD
KYWIEHLELP LGYIADYIRR LDEGQITSRV KDELIAEKER VVEEYRDL D GEQLAQF DAK
CGLAATAYPY VANHNFYIEH WTMSVFWRKV RELSRTLQGY GFWENEDDML YLNRTEVRDV
LFDLATAWGV GPPGGPIGTI IWPEEIERRK AIVTALKTAR PAPALNTPPE SITEPTFTRML
WGITTEQVQS WLGNDDEAE GTLKGMAASP GVVEGYARVI LSADDLSEIQ QDEILVAPVT
APSWGPIFGK IKATVTDIGG MMSHAAIVCR EYGLPAVTGT GAASTTIKTG DYLVKVDGTHG
KVVIVDPDAP RIEGPGAHSH AHSVAAHGVD THA

> RXA00683 (1-1092, translated) 364 residues
MTNSLNIPFV QRFDEGLDPV LEVLGGKGAS LVTMTDAGMP VPPGFVVT TA SFDEFIREAG
VAEHIDKFLN DLDAEDVKEV DRVSAIIRDE LCSLDVPENA RFAVHQAYRD LMERC GG DVP
VAVRSSATAE DLPDASFAGQ QDTYLWQVGL SAVTEHIRKC WASLFTSRAI IYRLKNNIPN
EGLSMAVVVQ KMNVS RVAGV AITMNPNSNGD RSKITIDSSW GVGEMVVS GE VTPDNILLDK
ITLQVVSEHI GSKHAELIPD ATSGSLVEKP VDEERANRRS LTDEEMLAVA QMAKRAEKHY
KCPQDIEWAL DADLPDGENL LLLQSRPETI HSNGVKKETP TPQAAKTIGT FDFSSITVAM
TGTK

> RXA00686 (1-804, translated) 268 residues
MAGGNREPGR TVTSKVIAVL GAFEHTMRPL GVTEIAELAD LPPSTTHRLV SELTEGGLLS
KKSDGRYQLG LRIWELAQNT GRQLRDTARP FIQELYSLTS ETAQLVVRDK DEALLIDRAY
GTKKIPRSAR VGGRLPLNST AVGKILLAFD EPWVKQSYLK LPLNASTPKT IVNPDVLAAQ
LKQIHSQGFA ITHDEQRIGG ASIAVPVWHT GKLGAALGLV VPTAQANLE RYLPILQATS
QRITKATALI PLDTLLASHK NAERKGD

> RXA00700 (1-804, translated) 268 residues
 MINAITLKPK TFLTLSFLAV LSIVIFFWPL IVNPESFLSD KAQAPLYIAI VIPLVLAAVI
 AEISENGFDV KAVAMLGVLV AMVAVVRPFG AGAAGFEAVF FVLILGGRF GPGFGFILGN
 TGLFASALLT AGIGPWLPHY MLAAAWVSFG AGLLPQVRGK KEMLIIVLYA IVSSLGYGTM
 MNMSFWPYAI GVTSGLSFTP GAPVLENLHT FMLFCLTSM GWDLGRAFFT SVLLLLTAKP
 VLGALRRASR RAAFGVERDF GEAGVPRV

> RXA00703 (1-2286, translated) 762 residues
 MTTPTTEISN VNPTANEFDD PDVGRRITSA AGVPGVLHAL QHAVPNRALL PLLTMNKPGG
 IDCPGCWPE PSTANLGVVE FCENGAKAVA EETTPDRAGK EFWAEHSIYD LREKTDHWLG
 KRGRITEPMF YDRSSGDDHY RPISWDRAFA IIASKLREIE PDEAVFYTS RAPNEPAYML
 QLLARRLGTM NLPDCGNMCH ESTGTALGET LGLGKGSVVM EDFYNTDLLI SVGQNPSTNH
 PRALTAFKEL KENGKKILAL NMPETGLMK FREPQSVKGA LSISDKLADE YLQIRLDGDR
 AFFQALNKEL IRRDALDHAF LDKFCSCGVDE TIEHLKSLDD EVLLKGCGLT AAEINKAADM
 VEKSDTVVVS WTLGVTQHKV AVYTIREMVN FLLLTGNIGK PGAGTAPLRG HSNVQGDRTM
 GIWEKMPFAL LAALNEFEFG DVPRKHGFDV VNSLRAMREG KTKFFLSLGG NLVRVSSDTS
 VVEKGMESNE LTVHLSTKPN GSQAWPGEQS LILPVIARTD KDVQKSGVQR VTVEDSAGAV
 HASTGKRTAN KDLNLKSECD IIGTIGKQTF GDAFWQPMID NYDVVRDHIE ATIPGFHDFN
 RRIDNPGGFL LPNGPRERIF NTSNGKAQLT VNETNVIELP KDYLLMNTVR SHDQYNSTIY
 GLDDRYRGVR NGRRVVFVNP QDCKQRGLKD GDIVDIVSVF DDGERRAPNF RVVEYDTARD
 CVTTYFPEAN VLVPLDSVAE KSNTPVSKSV VVRLEATGRT AS

> RXA00705 (1-885, translated) 295 residues
 PRVVSTDEQV FVNTRPDTVA VEEPLEIRVN GTALTMTMRT PGHDIELVHG LLLSEGLITD
 ASEVFTARYC AGAVGPDNQN TYNVLELDVI PKDNPARDPV QNPSHNPEGS QHEALHIPTF
 QPVRELNLVA AQRNVLTTSA CGVCGTTSIE QLMNKKGWPI TPITPDPRMI VSLPDKLKSK
 QKIFDKTGGV HAAGLATLDG EMLIREDVG RHNAADKVI NMLMAGKLPL ENTILVMSSR
 ASFELVQKAA MAGISGVIAV GAATSLAIEA AQDSGIFLAG FVRGNKFNHY AGELG

> RXA00782 (1-882, translated) 294 residues
 MSIFLNSDSR IIIQGITGSE GSEHARRILA SGAKLVGGTN PRKAGQTILI NDTPLPVFGT
 VKEAMEETGA DVTVIFVPPA FAKAAIIEAI DAHIPLCVII TEGIPVRDAS EAWAYAKKVG
 HTRIIGPNCP GIITPGESLA GITPANIAGS GPIGLISKSG TLTYQMMYEL SDIGISTAIG
 IGGDPIIGTT HIDALEAFEA DPETKAIVMI GEIGGDAAER AADFISKHVT KPVVGYVAGF
 TAPEGKTMGH AGAIVTGSEG TARAKKHALE AVGVVRVGTTP SETAKLMREV VAAL

> RXA00783 (1-1272, translated) 424 residues
 LKHLRLREDF VKDAEGSKHG PEMELAVDLF EYQARDLFET HGVPLVKGIV ASTPEAARKA
 AEEIGGLTVV KAQVKVGGRG KAGGVRVAPT SAQAFDAADA ILGMDIKGHT VNQVMVAQGA
 DIAEEYFSI LLDRANRSYL AMCSVEGGME IEILAKEKPE ALAKVEVDPL TGIDEDKARE
 IVTAAGFETE VAEKVIPVLI KIWQVYEEE ATLVEVNPLV LTDDGDVIAL DGKITLDDNA
 DFRHDNRGAL AESAGGLDIL ELKAKKNDLN YVKLDGSGVI IGNGAGLVMS TLDIVAAAGE
 RHGGQRPAF LDIGGGASAE SMAAGLDVIL GDSQVRSVFV NVFGGITACD VVAKGIVGAL
 DVLGDQATKP LVVRLDGNV VEGRRILAEY NHPLVTVVEG MDAAADHAAH LANLAQHGF
 ATAN

> RXA00794 (1-1005, translated) 335 residues
 MNLKNPETPD RNLAMELVRV TEAALASGR WVGRGMKNEG DGAAVDAMRQ LINSVTMKGV
 VVIGEGEKDE APMLYNGEEV GTGFGPEVDI AVDPVDGTTL MAEGRPNAS ILAAERGT
 YDPSSVFYMK KIAVGPEAAG KIDIEAPVAH NINAVAKSKG INPSDVTVVV LDRPRHIELI
 ADIRRAGAKV RLISDGDVAG AVAAAQDSNS VDIMMGTGGT PEGIIITACAM KCMGGEIQGI
 LAPMNDFERQ KAHDAGLVLD QVLHTNDLVS SDNCYFVATG VTNGDMLRGV SYRANGATTR
 SLVMRAKSGT IRHIESVHQL SKLQEYSVVD YTTAT

> RXA00799 (1-1584, translated) 528 residues
 LQFRDLGDG VLAPYEDWRL TPAERAADLV KRMNVEEKAG LMIIGSHYPG YSPLAPESEG
 KDAEKCEPLL NPVDMWRDN PITGVPFTEP VLATSSTENA INLRNQRYLI VRDNLPARGL
 ATWTNAVQEV AERSRLGIPV AFASNPRNHV ALVAQFGVNE SAGVFSEWPG ELGLAALRDA
 ELMETFGTEA AKEWRAGGVH KLYGYMADLA SEPRWSRFNG TFGEDPELIS DYIAAVVRGL

QGPESLKNV STTIKHFP GG GVRLDGHD PH FHWGQTNEYP TEDALGKYHL PPFQAAIDAG
 CASIMPYYAR PMNNSANQLD QQLWQNPTTQ FEEVAFAYNR TFIQDLLRDA MGHGRGVNSD
 SGVIDAMMWG VEELSEPERF AA AVRAGTDI FSDMANPRRL LEAVAEGHLD ESELNQPVQR
 LLEEIFQLGL FENPYVSEDE AEKIIGAPEV SALGNKAQLD SVTLLRNNPI RAATGSCSKP
 EDLPIGYWPY QDRRGSTTAG SSHSRRTPRG NLGVFRVRSR SCNRVGSP

> RXA00800 (1-1104, translated) 368 residues

MSTVVP GIVA LSKGAPVEKV NVVVPDPGAN DVI VKI QACG VCHTDLAYRD GDISDEFPYL
 LGHEAAGIVE EVGESVTHVE VGDFVILNWR AVCGE CRACK KGEPKYCFNT HNASKKMTLE
 DGTELSPALG IGAFLEKTLV HEGQCTKVNP EEDPAAAGLL GCGIMAGLGA AVNTGDIKRG
 ESVAVFG LGG VGMAAIAGAK IAGASKIIAV DIDEKKLEWA KEFGATH TIN SSGLGGEGDA
 SEVVAKVREL TDGFGTDVSI DAVGIMPTWQ QAFYSRDHAG RMVMVGVPNL TSRVDVPAID
 FYGRGGSVRP AWYGDCLPER DFPTYVDLHL QGRFPLDKFV SERIGLDDVE EAFNTMKAGD
 VLRSVVEI

> RXA00825 (1-933, translated) 311 residues

MRTVVTGGAG FIGSHLVDLL IKEGHEVVVI DNLSRGRLEN LSDAEATGKL TFVEADLLDV
 DFNEFLGTHK PEVIFHLAAQ IDVRHSVVDP LHDAETNLS TIRIADAARQ HGVRKVVFST
 SGGSIYGEPS EFPVDETVPV DPHSPYAASK VSGEIIYLN TF RHLYGLDCSH IAPANVYGPR
 QDPHGAEAGV AIFALRL LGG LDTKVFGDGG NTRDYVYVGD VVRAFYLASG EIGGGERFNI
 GTSVETSDRQ LHTLVATAAG SKDDPEYAPA RLGDVPR SAL SFGKAKEVLG WEPEVNIEQG
 VAKTVEYFRT H

> RXA00871 (1-864, translated) 288 residues

MRWFHKKGEL ARDGWQSVVD ATTPGWEYTG IRI AELGSGE SLELNDTGVE RIFIPLQGSF
 DVAHHGQVTH LHGRKSVFDG PTDVLYLPTG QTATLSGQGR VAVAEAPTQE PKEWKYIAPA
 ETPVELRGAG RSSRQVHNFG TPEALDAARL IVCEVITPGE NWSSYP PHKH DEHIPGHESK
 LEEIYFESA PSRVGGRAEA AEGA FGMFST YSSPAGEIDI NAMVYSGDIA LVPFGYHGPA
 VAAPGYDLYY LNMAGPDPE RIWLINDDPA HAWVRDTWTG QAFDDR LP

> RXA00872 (1-522, translated) 174 residues

MTNLTSTHEV LAIGRLGV DI YPLQSGVGLA DVQSFGKYL GSAANVSVA ARHGHSALL
 SRVGNDPFGE YLLAELERLG VDNQYVATDQ TFKTPVTFCE IFPPDDFPLY FYREPKAPDL
 NIESADVSLD DVREADILWF TLTGFSEEPS RGTHREILT RANRRHTIFD LDYR

> RXA00879 (1-2100, translated) 700 residues

LNELADLYGV ATSYTDYKGA HIEVSDDTLV KILRALGVNL DTSNLPND DA IQRQIALFHD
 REFTRPLPPS VVAVEGDEL V FPVHVHDGSP ADVHIELEDG TQRDVSQVEN WTAPREIDGI
 RWGEASF KIP GDLPLGWHL HLKSNSERSA CGLIITPARL STADKYLDSP RSGVMAQIYS
 VRSTLSWGMG DFNDLGNLAS VVAQDGADFL LINPMHAAEP LPPTEDSPYL PTTTRRFINPI
 YIRVEDIPEF NQLEIDL RDD IAEMAAEFRE RNLTSDI IER NDVYAAKLQV LRAIFEMPRS
 SEREANFVSF VQREGQGLID FATWCADRET AQSES VHGTE PDRDEL TMFY MWLQWL CDEQ
 LAAAQKRAVD AGMSIGIMAD LAVGVHPGGA DAQNLSHVLA PDASVGAPPD GYNQQGQDWS
 QPPWHPVRLA EEGYIPWRNL LRTVLRHSGG IRVDHVLGLF RLFVMPRMQS PATGTYIRFD
 HNALVGILAL EAELAGAVVI GEDLGTFFEPW VQDALAQ RGI MGTSILWFEH SPSQPGPRRQ
 EEYRPLALTT VTTHDL PPTA GYLEGEHIAL RERLGV LNTD PAELAEDLQ WQAEILDVAA
 SANALPAREY VGLERDQ RGE LAELLEGLHT FVAKTPSALT CVCLVDMVGE KRAQNQPGTT
 RDMYPNWCIP LCDSEGN SVL IESLRENELY HRVAKASKRD

> RXA00909 (1-855, translated) 285 residues

VLILFLALTA AAVVAPILIR TLGRPAFGLL ALVPGIGFFW VLSEFIKGT F KDGGELL LH Y
 AWMPSAHLNI DFRMDSL AAL FSLIVLG VGA LVLLYCWGYF DSNAGRLSAF GAELVAFAMA
 MFGLVISDNI LLMYVFW EIT SVLSFLLVGY YGERASSRRS AGQALMVTTL GGLAMLVGII
 LMGQTGTGVR FSEIPAYSSS WADVPIYISAA AALILAGALS KSAIAPTHFW LPGAMAAPT P
 VSAYLHSAAM VKAGIYLVAR LSPDLNVVGS WYLI IIP LGM LTMLM

> RXA00910 (1-1257, translated) 419 residues

YVGFEVLLVA SYVLLTLGAS PARVRSVG VY VMVSMAS SMV FLFGLAMVYA SVGT LNMAHV
 GLRMEDVPSG TRSAIFAVLL VAFGIKAAVF PLDSWLPDSY PTAPSLVTAV FAGLLTKVGV
 YSIIRARSII FTDGSLDTML MWVALATMLI GILGAMAQND IKRLLSFTLV SHIGYMFVGV

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ALGSAQGLSG AIFYAIHHIL VQTSFLVVG LVERQAGSSS LRRLGSLAYI SPLLAIFYFI
PAINLGGIPP FSGFLGKIML IEAGAEDGSW LAWVLIAGAV VTSLTLYTM VLVWSKAFWR
DRKDAPDGAT ALARPAPLVD VQDEVAVKDR NDVGRMPWGM VFSTALLVSA SLAVSVLAGP
LSSITGRAAE SAQDVNIYRA AVLGPNYLDP SRTLEMERYD ANRDDINHRV DTNGTEDQP

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> RXA00913 (1-2118, translated) 706 residues
IISVVGIGTR EALLAGLALT VAHSLFKATL FMTVGAIDHT TGTRDIRKLS GLWRKQPILF
AVAAVSAASM AGIPPLFGFI AKETALDTVL NEQMLHGMPG RLMLAGIVLG SIFTMAYSCY
FLYEAFATKH SKFPEANGVS PAVEAMHPVK FKLWIAPVIL AILTUVFGVF PKPVSEAVT
HLDNVTPSLD DVHTKLALWH GLNLPLLLSV VIIISGFIIF WERDTVERLR PNTAAFGSAD
TAYDAILDAL RVLSHRLTAS TQRGSLTLNV GVIFFVLTIV PLIALITGEQ SDVRMELWDS
PIQGFIAAII IVVAIVATTM DNRLSALILV GVTGYGIAVI FALHGAPDLA LTQVLVETIV
MVVFMVLVRK MPTEVAWKAE PKQSRVRAWL AGATGLSVVI VTIFAMNART TEPISVYMQD
LAYEIGHGAN TVNVLLVDLR GFDTFGEISV LVIAATGAS LVYRNRFRK DSRRTPLATT
GRRWLAAVD TERAQNRSLM VDVATRILFP AMIMLSVYFF FAGHNAPGGG FAGGLVASLA
FALRYLAGGR EEELEALPID AGRILGTGLF VSATAVLWPM VLLGEPPLTS HIWDLTLPLI
GEIHASALL FDLGVYLIVI GLTMHILNSL GGQLDRDEEM RKQRARDRAR RLARNQRREA
ATVGARRSNE KSTRQMPTIR PPGADTESVE QNGENQTSIS TKRLKQ

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> RXA00945 (1-972, translated) 324 residues
MLERLKRLLD LIVLIVLAVI VAIIPVRGV AADWFDVAVK IAIALLFFLY GARLSTQEAL
NGLKHWRLHL TILAITFGIF PLIGIGLEPM TAFVSEDIYR GILFTLVPS TVQSSVAFTS
IAKGNVAGAI VSASLSNLAG VFLTPLLVM IMSAGGGVHV DSQVFLDIAI QLLLPFILGQ
VCRRWVKNFA ANKATKIVDR GSIAMVVYSA FSAGMVAGIW STVSVLEIIY LIVFAILLVM
AMLWFTLFMA TRLGFNRRADS IAIQFCGTTK SLATGLPMAA VIFGGANIGL LILPLMIFHQ
VQLMICAWLA ARYGRDAQEQ KANA

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> RXA00965 (1-723, translated) 241 residues
MTTFHDLPLE ERLTLARLGT SHYSRQLSLV DNAEFGEHSL LEGWTRSHLI AHVAYNAIAL
CNLMHWANTG EETPMYVSPE ARNEEIAYGS TLNPDALRNL HEHSVARLDV AWRETSADAW
SHEVLTAQGR TVPASETLWM RSREVWIHAV DLGAVATFGD IPEVILRTLA AEITQKWTQ
GAGEGLVLLD EPSSTRYPAA PGQDEVVVSG SLAGIVRYAA GRGSDGVTSS TGEVPEPPRW
L

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> RXA00999 (1-1437, translated) 479 residues
MTNGDNLAIQI GVVGLAVMGS NLARNFARNG NTVAVYNRST DKTDKLIADH GSEGNFIPSA
TVEEFVASLE KPRRAIIMVQ AGNATDAVIN QLADAMDEGD IIIDGGNALY TDTIRREKEI
SARGLHFVGA GISGGEERAL NGPSIMPGGP AKSYESLGPL LESIAANVDG TPCVTHIGPD
GAGHFVKMVH NGIEYADMVQ IGEAYHLLRY AAGMQPAEIA EVFKEWNAGD LDSYLIEITA
EVLSQVDAET GKPLIDVIVD AAGQKGTGRW TVKAALDLGI ATTGIGEAVF ARALSGATSQ
RAAAQGNLPA GVLTDLALG VDKAQFVEDV RRALYASKLV AYAQGFDEIK AGSDENNWDV
DPRDLATIWR GGCIIRAKFL NRIVEAYDAN AELESLLLD YFKSELGDLI DSWRRVIVTA
TQLGLPIPVF ASSLSYYDSL RAERLPAALI QGQRDFFGAH TYKRIDKDG FHTWESGDR

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> RXA01015 (1-342, translated) 114 residues
MRVYLGADHA GFETKNAIAE HLEAHGHEVI DCGAHTYDAE DDYPAFCIEA ASRTVNDPGS
LGIVLGGSGN GEQIAANKVK GARCALAWSV ETARLAREHN NANLIGIGGR MHSE

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> RXA01025 (1-915, translated) 305 residues
VVSVSVMGAG SWGTTLAKVF SDAGNAVTLW ARREELASTI RDSHENRDYL PGITLPESLQ
VTSSATEALE GAAIVVLAIP SQALRGNLAE WKETIPQDAT LVSLAKGIEK GTHLRMSEVI
AEVTEADPSR IAVLSGPNLA REIAEGQPA TVIACPENR AKLVQAQVAA PYFRPYNTD
VVGTEIGGAC KNVIALACGI SHGYGLGENT NASLITRGLA EIARLGATLG ADAKTFSGLA
GMGDLVATCS SPLSRNRSFG ERLGQGESLE KAREATNGQV AEGVISSQSI FDLATKLGVE
MPITQ

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-> RXA01048 (1-288, translated) 96 residues
RSDLPNQINN VLAFFGIFAG ALAAKAKKIT PEMKLAAQRQ SQTSQRLTSR SAASCLPPWI
PALPQQSRQL SRPSPKRKTL KNLLIDASLP VEAPIF

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> RXA01049 (1-1011, translated) 337 residues
VVKTEFEKEF NKAKYVMTIG EYVYFKLAGI TGMATSIAAW SGILDAHTGE LDLTILEHIG
VDPALFGEIR NPDEPATDAK VVDKKWKHLE EIPWFHAIPD GWPSNIGPGA VDSKTVAVAA
ATSGAMRVIL PSVPEQIPSG LWCYRVSRDQ CIVGGALNDV GRAVTWLERT IIKPENLDEV
LIREPLEGTP AVLPFFSGER SIGWAASAQA TITNIEQQTG PEHLWRGVFE ALALSYQRVW
EHMGKAGAAP ERVIASGRVS TDHPEFLAML SDALDTPVIP LEMKRATLRG TALIVLEQLE
PGGTRATPPF GTTHQPRFAH HYSKARELFD ALYLKLV

> RXA01050 (1-474, translated) 158 residues
MGSIPTMSIP FDDSRGPYVL AMDIGSTASR GGLYDASGCP IKGTKQRESH EFTTGEGVST
IDADQVVSEI TSVINGILNA ADHNNIKDQI AAVALDSFAS SLILVDGEGN ALTPCITYAD
SRSAQYVEQL RAEIDEKAYH GRTGVCLHTS YHPSRLLW

> RXA01077 (1-1371, translated) 457 residues
MTESQDLAAF VEAAKLNDAS PEAVEQLKIR VLDTVGVAIG ALDAEPIVAI RGLLEDLGGT
EQSTLIGGGK TSPERAFFN SALSRYLDFM DAYLAKGETN HPSDNFGAVL AAAESVGASG
KDLLTAFAVA YQVHTRLSDV APVRAKGFHD TTQGAFAAGA SAAKALGLPA DQIANALAI
GTANVALRVT RTGNLSHWKG LAYPHVSKEG TWAALLASRG ITGPEEVFEG NKGFKESVSG
PFEIDWSKED LESVKRTIHK KHNAEIHSQS ALDAAQEIRA QEGFNVDNIE KIHLLTFDVA
YSIIGGGGEG DKQLIRTKEE ADHSLPWMLA VVLLDGQLNP EQYEPSRIVA DDVQTLMKKI
EITPSDEFSD RFPDHMPADL EVTLNDGSVF KASQDSYLG F HDNPLDWDNA RKKFDALVTP
FTGEELREEI ATIIHELDSR QVSELTEALA KVSTTRS

> RXA01089 (1-750, translated) 250 residues
LSRFAANLSL TFTELDLFLDR FDAASKHAFS AVEFYQPYDF DVQEIKQRAD SAGLPIELFN
APPGDTFGLA ALASPEDFQQ SIEQAITYAT VLKPKKMHVM AGIADVTSET TARYVENIRW
AAQQLDKLDV VVIEPINHY SVPGYFLHTL EQAYWLIDSI AHPNVKILFD TFHLQQIHGN
LTRRLREVHG AGLLGHVQVA SVPDRHEPGT GEVNAAAYIFQ LLESELGYDGV IAGEYHPAGE
TTAGLGWLEL

> RXA01093 (1-1431, translated) 477 residues
MGVDRRTKIV CTLGPAVASA DGILRLVEDG MDVARLNFSH GDHPDHEQNY KWVREAAEKT
GRAVGILADL QGPKIRLGRF TDGATVWENG ETIRITVDDV EGTHDRVSTT YKNLAKDAKP
GDRLLVDDGK VGLVCVSVEG NDVICEVVEG GPVSNNKGVS LPGMDISVPA LSEKDIRDLR
FALKLGVDFI ALSFVRSPAD AELVHKIMDE EGRRVPVIAK LEKPEAVTSL EPIVLAFDAV
MVARGDLGVE VPLEEVPLVQ KRAIQIAREN AKPVIVATQM LDSMIENSRP TRAEASDVAN
AVLDGADAVM LSGETSVGKD PHNVVRTMSR IVRFAETDGR VPDLTHTIPT KRGVISYSAR
DIAERLNARA LVAFTTSGDT AKRVARLHSH LPLLVFTPNE AVRSELALTW GATTELCPPV
SDTDDMMREV DRALLAMPEY NKGDMMVVVA GSPPGVTGNT NMIHVHLLGD DTRIAKL

> RXA01099 (1-825, translated) 275 residues
MDARGMLAIA EAVVDDAEAL FMQGFGAAPA HMKSPGDFAT EVDMAIESHM RSMLNMMTGI
AVIGEEGGGA TSGTRWVIDP IDGTANFAAS NPMSAILVSL LVDDQPVLLGI TSMPMLGKRL
TAFEGSPLMI NGEPEQPLQE QSSLVSHIGF SSMASPRNTA FPVELRRDLL TELTESYLRP
RITGSVGVDL AFTAQGIFGA CVSFSPHVWD NSAGVMLMRA AGAQVTDTEG HPWAPGRGVV
AGTKRAHDVL LSKIEKVRLM HADAGNDQSL NEEYK

> RXA01111 (1-447, translated) 149 residues
MTSTIEHSYQ VWPGHAYPLG STYDGAGTNE ALFSDVAERV ELCLLDADNN ETRIPLEERD
AHIWHCYLPG VQPGQRYGFR VHGPWNPDG KRCDANKLLV DPYARAFDGD FDGHPSLFSY
DITNPNDPNG RNTEDSIDHT MKSVVVNPF

> RXA01130 (1-303, translated) 101 residues
VGALTGLERV EKITRINGRG LDLRAEGLNL FLQYTDAPGA LGTVGTLKGA AGINIEAAAL
TQAEKGDGAV LILRVESAVS EELEAEINAE LGATSFQVDL D

> RXA01133 (1-549, translated) 183 residues
VSQNGRPVVL IADKLAQSTV DALGDAVEVR WVDGPNRPEL LDAVKEADAL LVRSATTVDA

EVIAAAPNLK IVGRAGVGLD NVDIPAATEA GVMVANAPTS NIHSACEHAI SLLLSTARQI
 LLLMRRCVRA SSGSLLSTVW KFSEKLSVSS VLATLVSCLL SVLLRLRPPL LLTILTLTLL
 RAG

> RXA01193 (1-741, translated) 247 residues
 MRVALSGLTM AEYFRDVQNO DVLLFIDNIF RFTQAGSEVS TLLGRMPASV GYQPTLADEM
 GVLQERITST KGRSITSLQA VYVPADDYTD PAPATTF AHL DATTELDRSI ASKGIYP AVN
 PLTSTSRILE PAIVGERHYE VSQRVIGILQ KNKELQDIIA ILGMDELSEE DKITVARARR
 IERFLGQNFF VAEKFTGLPG SYVPLTDTVD AFERICNGDF DHYPEQAFNG LGGLDDVEAA
 YKKLTGK

> RXA01194 (1-372, translated) 124 residues
 MAEITVELVS VERMLWAGQA SIVTAQTTEG EIGVLPDHEP LLGQLVENG VVTIQPIDGEK
 LIAGVSDGFL SVSKEKVTIL ADFAVWANEV DTASAEADLN SDELA KAHA EAGLRAVRRS
 SEGL

> RXA01200 (1-609, translated) 203 residues
 GCLRWKSEPS VLEV LKDAAE QTWSTPREFR AGLVQLGRRA LLRSAEKQGO LGQVEDELFR
 LSRILDRESK LTQLLSDRTO EIGGRRDLLA KVL YGKVTAV TEALALQAIG RPEHNPIDDI
 AALAGAV AEL QGRSVAHVVT AVELNEGQQO ALAEKLGRIY GRAMSIHSEV DTSLLGGMII
 RVGDEVIDGS TSGKLERLRA SFA

> RXA01201 (1-1641, translated) 547 residues
 MAELTISSDE IRS AIANYTS SYSAEASREE VGVVISAADG IAQVSGLP SV MANELLEFPG
 GVIGVAQNLE ADRVG VVVLG NYELLKEGDQ VVRTGDVLSI PVGEAFLGRV INPLGQPIDG
 LGEIASEEDR VLELQAPTVL ERQPVEEPLA TGIK AIDAMT PIGRGQRQLI IGDRKTGKTA
 VCVDTILNQK ANWETGDKTK QVRCIYVAIG QKGSTIAALR KTL EEQGALE YTTIVAAPAS
 DAAGFKWLP FAGAALAQHW MYQGNHVLVI YDDLTKQAEA YRAIS LLLRR PPGREAYPGD
 VFYLHSRLLE RAAKLSDELG AGSIT ALPII ETKANDVSAF IPTNVISITD GQVFLES DLF
 NRGVRPAINV GVS VSRVGGA AQTKGMKKVA GSLRLDLAAF RDLEAFATFA SLDLAASKSQ
 LERGQRLVQL LIQSENAPQA VEYQIISLWL AGEGAFDNVP VEDVRRFESE LHEYLGSNAA
 QVYEQIAGGA QLSDESKETL LKATEDFKSA FQTTDGPVI NEPEVEALDA GQVKKDQLTV
 SRKVS KK

> RXA01202 (1-975, translated) 325 residues
 MATIRELRDR IRS VNSTKKI TKAQELIATS RITKAQGRVA AAPYAE EIQ RVLERLASAS
 SLDHPMLRER EGGKRAAVLV VTS DRGMAGG YNHNVLK KAA ELEKLLAESG YEVVRYVTGK
 KGV DYYKFRA EDVAGTWTGF SQDPDWAATH NVRRHLIDGF TASSEGEAAW REGNLNPEGQ
 DIQGF DQVHV VYTEFISMLT QNPVVHQLLP VEPVIEDEIF EKGEDLLSSS GEVEPDYEF E
 PDADTLLEAL LPQYVSRRLF SIFLEAAAAE SASRRNAMKS ATDNATELVK DLSRVANQAR
 QAQITQEITE IVGGAGALAD SGESD

> RXA01203 (1-639, translated) 213 residues
 MTTALEEQNA QQAATAGRVV RVIGAVVDVE FPRGELPALY NALTVEVTLE SVKKT VVLEV
 AQHLGDNLIR TIAMAPT DGL VRGA AVTDTA RPISVPVGDV VKGHVFNALG DCLDDVSLNN
 NPEIERWGIH REPPSFDQLE GKTEILETGI KVIDLLTPYV KGGKIGLFGG AGVGKTVLIQ
 EMITRIAREF SGTSVFAGVG KRTREGTDLF LEM

> RXA01204 (1-762, translated) 254 residues
 MKGEFHAPDL DKEFFPGHVT DSGEVVNMLF TDFANGWFAM DRIVLIRLLM TAVVVVFFLW
 AMRKPKLVP HGVQNFAEYAL DFVGIHIAED ILGKKKGRRF LPILATIFFA ALLMNLATII
 PGLNISSNSR IAFPIVMAVA GYIAFIYAGS KRYGFFKYVK SSVVIPNIPP ALHVLVVP I E
 FFSTFILRPV TLALRLMANF LAGHIILVLL FFATNFFFFQ FNGWTAMSGV TILMAVLFTV
 YEIIVIFLQA YIFA

> RXA01216 (1-1101, translated) 367 residues
 TDHTLSALLD AHVEVPTAVT VLTMLRDDPT GYGRIVRNEE GEVTAIVEQK DASA EVQAID
 EVNSGVFAFD AAILRSALAE LKSDNAQ GEL YLTDVLGIAR GEGHPVRAHT AADARELAGV
 NDRVQLAEAG AELNRRTVIA AMRGGATIVD PATTWIDVEV SIGRDVIIHP GTQLKGETVI
 GDRVEVGPD TLTNMTIGDG ASVIRTHGFD STIGENATVG PFTYIRPGTT LGPEGKLG GF

VETKKATIGR GSKVPHLTYV GDATEEESN IGASSVFVNY DGENKHHTTI GSHVRTGSDT
MFIAPVTVGD GAYSGAGTVI KDDVPPGALA VSGGRQRNIE GWVQKRPQT AAAQAAEAAQ
NVHNQEG

> RXA01225 (1-1440, translated) 480 residues
MTHNHKDWND RIAVAEEMVP LIGRLHRNNN VVSVFGRLL VNVSDIDIK SHRYARHIIS
KELPLESLD ILRELVDML GTASIDLGL AYSEEST DLRAFLEDAL APVIGAETDI
NPTDIVLYGF GRIGRLARI LVSREALYDG ARLRAIVVRK NGEEDLVKRA SLRRDSVHG
GFDGTITTDY DNNIIWANGT PIKVIYSNDP ATIDYTEYGI NDAVVVDNTG RWRDREGLSQ
HLKSKGVAKV VLTAPGKGD LKNIVYGINHT DITADDQIVS AASCTTNAIT PVLKVINDRY
GVEFGHVETV HSFTNDQNL DNFHKGSRG RAAGLNMVLT ETGAAKAVSK ALPELEGKLT
GNAIRVPTPD VSMVNLNLT NTEVDRDEVN EFLRRVSLHS DLRQQIDWIR SPEVVSTDFV
GTTAGIVDG LATIATGRHL VLYVWYDNEF GYSNQVIRIV EEIAGVRPRV YPERRQPAVL

> RXA01227 (1-321, translated) 107 residues
MTYTIAQPCV DVLDRACVEE CPVDCIYEGK RMLYIHPDEC VDCGACEPVC PVEAIFYEDD
VPHEWWDYTG ANAAFFDDL SPGGAASLGP QDFDAQLVAV LPPQNN

> RXA01242 (1-777, translated) 259 residues
MYAEERRRQI ASLTAVEGRV NVTELAGREF VTAETIRRD AVLDREGIVH RVHGGAVATQ
SFQTTELSL TRFRSASSAK YSIKAAAMQF LPAEHGGLFL DAGTTVTALA DLISEHPSSK
QWSIVTNCLP IALNLNAGL DDVQLLGGSV RAITQAVVG TALRTLALMR ADVVFIGTNA
LTLDHGLSTA DSQEAAMKSA MITNAHKVVV LCDSTKMGTD YLVSFGAISD IDVVVTDAGA
PASFVEQLRE RDVEVVIAE

> RXA01243 (1-960, translated) 320 residues
MILTVTASPY LLSTNELDGT IEIGEANKIR QVSTVAGGFG TGVAATLFYG GNETFAVFPA
PEISHYMLRV TFAGLPHEII PVAGPIPMHL TMRDAEGNET KFKDSPMLD VSQALILRDL
VVRRAEDAAW VLLGGNLPSI APAAWFVDV RSLRLYHPHV KVAIAATGAA LRAVIRQLAA
TSPDALIVAA EEIEIATGLE PKTLRGPVVE GDLSPVAAA RALIDSGVTE VLVNKRKTES
LYVSESESL ASYDSTPGKQ GVNWRESFTA GFLAASNDGK STEDSVINAV AYANAEGSEW
DNYIPTDKL RAEHVVIKSL

> RXA01259 (1-858, translated) 286 residues
MGTRFLPATK TIPKELLPVV DTPGIELVAK EAADLGATRL AIITAPNKDG ILKHFEFPE
LEATLEARGK TDQLNKVRAA RELIATVPV QEKPLGLGHA VGLAESVLDD DEDVVAVMLP
DDLVLFPFV ERMAEVRKF GGSVLAAIEV AEDEVSNYGV FKLGELEAES ESEGIRRVVG
MVEKPAPEDA PSRFAATGRY LLDRAIFDAL RRIEPGAGGE LQLTDAIALL IEEGHPVHIV
VHEGKRHD LG NPAGYIPAVV YFGLRHAIEY SKIHRVKEI LAEFES

> RXA01262 (1-1161, translated) 387 residues
MKIAGVAGLY VGLSNAALLS KNHKVVAVDI DEERVKLVE FRSPIVDSL EEYLSTKPQN
LTATTDAAEA YKGADFVIA TPTNYDPESN FFDTSVESV IEIVLKVSPG STIVIKSTIP
VGFTSELRIK HPEASIIFSP EFLREGRAFY DNLPSRVVV GDRSPLGEEF ATLLAEGAKE
KPPILLTDST EAEAIKLFSN TYLALRVAFF NELDTYASVR SLDTKQIEG VGLDPRIGSH
YNNPSFGYGG YCLPKDTKQL LANYKDVPQN LISAVVQANK TRKDFIAEDI LSKSPTVVG
YRLVMKSGSD NFRSSSIQGV MKRIKAKGIE IVVFEPNLGE ETFYNSKILN DIEEFKDYCD
IIIANRPTDE LSDVPEKVYT RDIFQD

> RXA01311 (1-747, translated) 249 residues
MKLTLEIWRQ AGPTAEGKFE TVQVDDAVAQ MSILELLDHV NNKFIEEGKE PFAFASDCRE
GICGTCGLLV NGRPHGADQN KPACQRLVS YKEGDTLKIE PLRSAAYPVI KDMVVDRLSAL
DRVMEQGGYV TINAGTAPDA DTLHVNHEA ELALDHAACI GCGACVAACP NGAHLFTGA
KLVLHSLPLL GKEERGLRAR KMVDEMETF GHCSLYGECA DVCPAGIPLT AVAAVTKERA
RAAFRGKDD

> RXA01312 (1-1077, translated) 359 residues
ESLRNDGRIW SPKEPNDRD PNTIPEDERD YFLERRYPAF GNLVPRDVA RAISQINAG
LGVGPLNNA YLDFRDATER LGQDTIRERY SNLFTMYEEA IGEDPYSSPM RIAPCHFTM
GGLWTFNEM TSLPGLFCAG EASWYHGAN RLGANSLLSA SVDGWFTLPF TIPNYLGPLL

GSERLSEDAP EAQAAIARAQ ARIDRLMGNR PEWVGDNVHG PEYYHRQLGD ILYFSCGVSR
 NVEDLQDGIN KIRALRDDFW KNMRITGSTD EMNQVLEYAA RVADYIDLGE LMCVDALDRD
 ESCGAHFRDD HLSEDEGAQR DDQNWCFVSA WEPGENGTFFV CHAEPLFFES VPLQTRNYK

> RXA01325 (1-672, translated) 224 residues
 MDMTISRSTM AQILDYTLTG PEVTNSELAA FIDSAIELGV GTICVPNSMV NLTAQAQEG
 IRVATVAGFP HGKTPALVKA AEARLAVQSG ASEVDVVDI AVVKEGDANR LLQEIVAI
 AVPSPVVLKF ILETAVSDE AIVTAVNALI AAGADFAKTS TGFHPAGGAT VEA VRVMASA
 SRGRVGIKAA GGVKTWEDAV AFVEAGATRI GTSNAGAILE GAPE

> RXA01332 (1-549, translated) 183 residues
 AAAAAAED APGAQAFTRI EDAIAADAVD AVLIAVPGQF HEPVLVPALE AGLPILCEKP
 LTPDSESLR IVELEQKLDK PHIQVGFMR FDPEYNNLRK LVESGEAGEL LMLRGLHRNP
 SVGESYTQSM LITDSVVHEF DVIPWLAGSR VVSVEVKYPK TSSLAHSGLK EPILVIMELE
 NGV

> RXA01350 (1-984, translated) 328 residues
 MNSPQNVSTK KVTVTGAAGQ ISYSLWRIA NGEVFGTDP VELKLEIPQ ALGGAEGVAM
 ELLDSAFPLL RNITITADAN EAFDGANAAF LVGAKPRGKG EERADLLANN GKIFGPQGA
 INDNAADDIR VLVVGNPANT NALIASAAAP DVPASRFNAM MRLDHNRAIS QLATKLGRGS
 AEFNNIVVWG NHSATQFPDI TYATVGGEKV TDLVDHDWYV EEFIPRVANR GAEIIEVRGK
 SSAASAASSA IDHMRDWVQG TEAWSSAAIP STGAYGIPEG IFVGLPTVSR NGEWEIVEGL
 EISDFQRARI DANAQELQAE REAVRDLL

> RXA01365 (1-894, translated) 298 residues
 MRTRESVTAV IKAYDVRGVV GVDIDADFIS ETGAAFGRML RSEGETTVAI GHDMRDSSPE
 LAKAFADGVT AQGLDVVHLG LTSTDLYFA SGTLCACAGM FTASHNPAEY NGIKLCRAGA
 RVPVQDGLA NIIDDLVEGV PAFDGESGVS SEQDLSAYA EYLNELVDLK NIRPMKVAVD
 AANGMGGFTV PEVFKGLPLD VAPLYFELDG NFPNHEANPL EPANLVDLQK FTVETGSDIG
 LAFDGDADRC FVVDEKGQPV SPSAICAIVA ERYLEKLPGS TIIHNLITSK AVPEVIAE

> RXA01369 (1-501, translated) 167 residues
 NEQCLGDVGV LGALLNFYK LAPGEALYLD AANLHAYISG LGVEIMANSND NVLRGGLTSK
 YVDVPELVRV LDFNSLENAR VDVEEDGATT HYPVPINEFQ LDRVAVQGEA EANHGDGPMIV
 LCTSGTVSLE AGEKTLEVA GHAAWVPAND PTIAMRSEDA EVFLARV

> RXA01373 (1-708, translated) 236 residues
 MELLEGSLRT YPWGSRTLIA DLKGEESPSS RPEAEVWFGA HPGSPSTIGG NALNEVIAAN
 PEEALGTRVA EAFENELPFL LKILAAGAPL SLQAHPSLEQ AREGFARENS AGIDLGA
 NYRDPNHKPE LIVALTEFIA MAGFRPLRNT LTIFDALACE PLDRYRSLMT VDNEEESLRA
 LFTTWITIFI GKRHELIDAL ISNAHTYLEA SDRDEDIAFV LSHIIELENEQ YPGDVG

> RXA01377 (1-1086, translated) 362 residues
 MTLTDNSKNV DAVILVGGKG TRLRPLTVNT PKPMLPTAGH PFLTHLLARI KAAGITHVVL
 GTSFKAEVFE EYFGDGSEMG LEIEYVVEDQ PLGTGGGIRN VYDKLRHDTA IVFNGDVL
 ADLNSILDTH REKDADLTMH LVRVANPRAF GCVPTDEDGR VSEFLEKTED PPTDQINAGC
 YVFKKELIEQ IPAGRAVSVE RETFPQLLEE GKRVFGHVDA SYWRDMGTPS DFVRGSADLV
 RGIAYSPLE GKTGESLVDA SAGVRDGVLL LGGTVVGRGT EIGAGCRVDN TVIFDGV
 TIE PGAVIENSII SSGARIGANA HISGCIIGEG AQVGARCELN AGMRVFPGVV IPDSGIRFSS
 DQ

> RXA01392 (1-1077, translated) 359 residues
 VANTSSDWAG APQNASADGE FVRDNTYIDD RIVADVDPAGS EPIAQEDGTF HWPVEAGRYR
 LVAARACPWA HRTVITRLL GLENVISLGL TGPTHVRSW TFDLPNHL D PVLQIPRLQD
 AYFNRFPDYP RGITVPALVE ESSKKVVTND YPSITIDFNL EWKQFHREGA PNLYPAELRE
 EMAPVMKRIF TEVNNGVYRT GFAGSQEAHN EAYKRLWVAL DWLEDRLSTR RYLMGDH
 ITE ADIRLYPTLV RFDVAVYGHF KCGRNKITEM PNLWGYLRDL FQTPGFGDTT DFTEIKQHY
 Y ITHAEINPTR IVPVGPDL SG FATPHGREKL GGSPFAEGVT LPGPIPAGEE VKNPEPFQK

> RXA01436 (1-1191, translated) 397 residues

MALALVLNSG SSSIKFQLVN PENSAIDEPY VSGLVEQIGE PNGRIVLKIE GEKYTLETPI
ADHSEGLNLA FDLMDQHNCG PSQLEITAVG HRVVHGGILF SAPELITDEI VEMIRDLIPL
APLHNPANVD GIDVARKILP DVPHVAVFDT GFFHSLPPAA ALYAINKDVA AEHGIRRYGF
HGTSHEFVSK RVVEILEKPT EDINTITFHL GNGASMAAVQ GGRAVDTSMG MTPLAGLVMG
TRSGDIDPGI VFHLSRTAGM SIDEIDNLLN KKSQVKGSLG VDNDFRELREM IDNNDQDAWS
AYNIYIHQLR RYLGSYMVAL GRVDTIVFTA GVGENAQFVR EDALAGLEMY GIEIDPERNA
LPNDGPRLIS TDASKVKVFV IPTNEELAIA RYAVKFA

> RXA01468 (1-825, translated) 275 residues
MTVNISYLTMD MDGVLKEGE IIPGADRFLQ SLTDNNVEFM VLTNNSIFTP RDLSARLKTS
GLDIPPERIW TSATATAHFL KSQVKEGTAY VVGESGLTTA LHTAGWILTD ANPEFVVVLGE
TRTYSFEAIT TAINLILGGA RFICTNPDVT GPSPSGILPA TGSVAALITA ATGAEPYYIG
KPNPVMMRSA LNTIGAHSEH TVMIGDRMDT DVKSGLEAGL STVLVRSGIS DDAEIRRYPF
RPTHVINSIA DLADCWDDPF GDGAFHVPDE QQFTD

> RXA01478 (1-1836, translated) 612 residues
MTIPGASTQT DIPLDTLLED YALLSDTHTG ALLSNMGSLD WLCLPRFDSQ AMFTRLLGDR
EHGHWSTLQV GGEVISQNYL GDSFVVQTVW RSETGTARVV DFMPHIGQEQ PDITDLVRSV
HCVEGEVDVE SILRLRFYDG ESTPYFRTST VDGISIVQAV AGPNAVYVRG PEMPHRPAKD
CHSGTFHLTA GESVEWVLTW APSFEPHPPM PDYTRSLEST LSFWASWVEE LPHQRLYDAE
VRRSMLVLR LTLDTQTGGIV AAPTTSLPED FGGIRNWDYR YVWLDRSALT IEALVEYGFS
QAALQWRTWL LRAIAGDPEN LRIMYGLGGE RHLPERELQH LRGYENSVPV RVGNAAEQY
QADVVEVMV ALETIRRAGC LEDEFSSWGMQ KAILDFQEAN FDRKQDQIWE MRSEPQYFTH
GRAMMWAGFD RGIKAIEEFN LDGPIERWRE LRACLREEIM TNGFNEEIQS FTQCYDNTQV
DASLLQLAQI GFIGFDDPKM LSTVARIEQE LLDAHGFHLR YHTDGSGLA GDEYFPLICS
FWLVEQYASS NRLDEAKEKM NRILAVQSPL GLLAEEYSTH HGRLAGNYPQ AFSHIGLISA
ARAINFEAR NR

> RXA01482 (1-1875, translated) 625 residues
MRMCGIVGYI GQAGDSRDYF ALDVVVEGLR RLEYRGYDSA GIAIHANGEI SYRKKAGKVA
ALDAEIAKAP LPDSILGIGH TRWATHGGPT DVNAHPHVVS NGKLAVVHNG IIEFNAELRS
ELSAKGYNFV SDTDTEVAAS LLAEIYNTQA NGDLTLAMQL TGQRLEGAFT LLAIHADHDD
RIVAARRNSP LVIGVGEGEN FLGSDVSGFI DYTRKAVELA NDQVVTITAD DYAITNFDGS
EAVGKPFDFE WDAAAAEKGG FGSFMEKEIH DQPAAVRDTL MGRLEDEDGKL VLDELRIEDA
ILRSVDKIVI VACGTAAYAG QVARYAIEHW CRIPTEVELA HEFRYRDPIL NEKTLVVALS
QSGETMDTLM AVRHAREQGA KVVVAICNTV STLPREADAS LYTYAGPEIA VASTKAFLAQ
ITASYLLGLY LAQLRGNKFA DEVSSILDSL REMPEKIQV IDAEQIKKL GQDMADAKSV
LFLGRHVGFV VALEGALKLK EIAYLHAEGF AAGELKHGPI ALVEEGQPIF VIVPSRGRD
SLHSKVVSNI QEIRARGAVT IVIAEEGDEA VNDYANFIIR IPQAPTLMQP LLSTVPLQIF
ACAVATAKGY NVDQPRNLAK SVTVE

> RXA01534 (1-489, translated) 163 residues
MTSAITTATD LRSVLRNVPT PISFIATHTD QPLGMIVGSF VSISAEPPLV GIFLQKSSSS
WPAIEQALVT GQELGISILG GAHADHVRKL SGPSDQRFEN LGWASTENGA IHLEGADAQL
TTKLHDLQEI GDHFFAVLEV IDASADQDFS SALVYHRSQV SSL

> RXA01535 (1-1407, translated) 469 residues
MTEQEFRIEH DTMGEVKVPA KALWQAQTQR AVENFPISGR GLESAQIRAM GLLKAACAQV
NKDSGALDAE KADAIIAAGK EIASGKHDAE FPIDVFQTS GTSSNMNTNE VIASIAKANG
VEVHPNDHVN MGQSSNDTFP TATHVAATEA AVNDLIPGLK VLHESLAKKA NEWSEVVKSG
RTHLMDAVPV TLGQEFGGYA RQIQLGIERV EATLPRLGEL AIGGTAAGTG INTSADFGGK
VVAELINLTD VKELKEAENH FEAQAARDAL VEFSGAMRVI AVSLYKIAND IRLMSGPLT
GLGEIRLPDL QPGSSIMPGK VNPVLCETAT QVSAQVIGND AAVAFSGTQG QFELNVFIPV
MARNVLESAR LLANTSRVFA TRLVDGIEPN EAHMKELAES SPSIVTPLNS AIGYEAANKV
AKTALAEGKT IRQTVIDLGL VDGEKLTEEE LDKRLDVLAM AHTERENKF

> RXA01550 (1-1344, translated) 448 residues
IFQQLFWRVW EIITEIDRRF RLERAADGLD EETIDRMAPI QRGTVHMAWI ACYAAYSING
VAALHTEIHK AETLADWYAL WPEKFNNKTN GVTPRRWLRM INPGLSLLT RLSGSDDWVT
DLDELKKLRS YADDKSVLEE LRAIKAANKQ DFAEWILERQ GIEIDPESIF DVQIKRLHEY

KRQLMNALYV LDLYFRIKED GLTDIPARTV IFGAKAAPGY VRAKAIKLI NSIADLVNND
 PEVSPLLKVV FVENYNVSPA EHILPASDVS EQISTAGKEA SGTSNMKFMM NGALTGLTMD
 GANVEIVDSV GEENAYIFGA RVEELPALRE SYEPYELYET VPGLKRALDA LDNGTLNDNN
 SGLFYDLKHS LIHGYGK DAS DTYYVLGDFA DYRETRDRMA ADYASDPLGW ARMAWINICE
 SGRFSSDRTI RDYATEIWKL EPTPAVKK

> RXA01562 (1-1038, translated) 346 residues
 EQDLDELMHS TGVIDPLTGA PKSASKPGWT SVFSDELVKI GAQENNVVAI TAAMAGPTGL
 SKFEANFPNR FFDVGIAEQH AVTSAAGLAL GGHKHPVVAIY STFLNRAFDQ LLMDVGMLNQ
 PVTLVLD RSG VTGSDGASHN GVWDMALTSI VPGVQVAAPR DEDSLRELLN EASIDDGPT
 VVRFPGKGLP TPIVAIDTLE DGVDVLAYED ATDVESTDDA PSVLIIAVGE RATVALDVAS
 RIKQHGVNVT VVDPRWIVPI PQSLVALSDD HDLVITIEDG VIHGGVGSLL SDALNASEVD
 TPRRQIAVPQ KYLDHASRNE VLADYGLDAD GIETTVVGWL DSLFGE

> RXA01569 (1-426, translated) 142 residues
 APRHYIVRTS WVIGDGNFV RTMKSLDERG IAPSVVDDQI GRLSFTEDIA AGIAHLLEVG
 AAYGTYNLTN TGEPASWADV ARAVFS DPTK VTGVSTAEYF ANKDAAPRPL NSVLDLGKIE
 ATGFSAPTQW TRLNDYLKEL SK

> RXA01570 (1-855, translated) 285 residues
 VKGIILAGGS GTRLYPITKG ISKQLMPIYD KPMVYYPLTT LIQAGIKDIL IITTPEDSAS
 FERLLGDGSS WGINLTYAVQ PSPDGLAQAF IIGEEFIGDD DVALVLGDNI FDGAQLGHAL
 KQCSNP DGGI VFAYEVS DPE RYGVVEFDAA NKA VSIEEKP TAPKSNFAVV GLYFYDN RVV
 DIAKSIKPSS RGELEITSVN DAYLQOGALT VQRLDRGDVW LDTGTIDSMS EASSYVEVLQ
 KRTGNIIGSP EVAAYREGFI TAEELTVLGE ELKKS GYGN Y LLRAL

> RXA01571 (1-600, translated) 200 residues
 VSISVKALQK SGPEAPFEVK IIERRDPRAD DVVIDIKAAG ICHSDIHTIR NEWGEAHFPL
 TVGHEIAGVV SAVGSDVTKW KVGDRVGVC LVNSCGECEQ CVAGFENNCL RGNVGTYN SN
 DVDGTITQGG YAEKV VVNER FLC SIPEELN FDVAAPLLCA GITYSPIAR WNVKEGDKVA
 VMGLGGTRTH GCPDRCSQGC

> RXA01572 (1-492, translated) 164 residues
 MG VQIAAAKG AEVTVLSRSL RKAELAKELG AARTLATSDE DFFTEHAGEF DFILNTISAS
 IPVDKYLSLL KPHGVMAVVG LPPEKQPLSF GALIGGKVL TGSNIGGIPE TQEMLD FCAK
 HGLGAMIE TV GVNDVDAAYD RVVAGDVQFR VVIDTASF AE VEAV

> RXA01615 (1-939, translated) 313 residues
 MSDSPKNAPR ITDEADVLI GAGIMSSTLG AMLRQLEPSW TQIVFERLDG PAQESSSPWN
 NAGTGHSALC ELNYTPEVKG KVEIAKAVGI NEKFQVSRQF WSHLVEEGVL SDPKEFINPV
 PHVSFGQ GAD QVAYIKARYE ALKDHP LFQ MTYADDEATF TEKLPLMAKG RDFS DPVAIS
 WIDEGTDINY GAQTKQYLD AAEVEGTEIRY GHEVKS IKAD GAKWIVTVKN VHTGDTKTIK
 ANFVFVGAGG YALDLLRSAG IPQVKGFAGF PVSGLWLRCT NEELIEQHAA KVYGKASVGA
 PPMSVPHLDT RVI

> RXA01626 (1-345, translated) 115 residues
 MSKTIIVRTE IEIPGHPTAI HIAEMQELPP SEAQGGVQMC KMQRRIELAG TAEGDVVTGA
 GVIGGSNFQL NNEPNEVPH PDIYADFPDI KAVVISAETF EGLWLEAGAK FPGLN

> RXA01632 (1-1005, translated) 335 residues
 MTLRIALFGA GRIGHVHAAN IAANPDLELV VIADPFIEGA QRLAEANGAE AVASPDEVFA
 RDDIDGIVIG SPTSTHVDLI TRAVERGIPA LCEKPIDLDI EMVRACKEKI GDGASKVMLG
 FNRRFDPSFA AINARVANQE IGNLEQLVII SRDPAPAPKD YIAGSGGIFR DMTIHDLDMA
 RFFV PNIVEV TATGANVFSQ EIAEFNDYDQ VIVTLRGSKG ELINIVNSRH CSYGYDQRL E
 AFGSKGMLAA DNIRPTTVRK HNAESTE QAD PIFNFFLERY DAAYKAELAT FAQGIRDGQG
 FSPNFEDGVI ALELANACLE SAQTGRVTTL NPANV

> RXA01633 (1-1083, translated) 361 residues
 MKNITIGMVG VGRIGRMHVA NMLAVAETLK ERDLNIEIVL ADAMPGFAEQ VGADMGVKAA

ASVDKLIEDG VDALFIATST AGHVDVLRKG IAAKLPMFCE KPIASDVPE LNIIREIDAA
GATVQVGHQR RFDLGYQEAK RRLDAGDLGW LHSLKAVSSD AFPPPVSYCA TSGGLFRDVS
LHDFDIIRWL TGQDIVEVYA KGSNNGDPEI GAVGDIDTGA ALLTLADGTL ATAIATRYNG
AGHDVRLDVM GSKDSTIVGL DEKSAFASAE EGIDFPTGES HPTFAERFAD AYKNECIAFV
ELILGERENP CTPADAVAAA IVADAAQLSL VTGEPVKIPT VREILEGSAQ PVEVRALVPS
A

> RXA01695 (1-210, translated) 70 residues
AGLLGASPGA SIAPSAMIEL LERCFGDRMI EWGDKLKDMI PSYGKKLASE PALFEQQWAR
TQKTLKLEEA

> RXA01702 (1-1032, translated) 344 residues
MPIATPEVYN EMLDRAKEGG FAFPAINCTS SETINAALKG FAEAESDGII QFSTGGAEFG
SGLAVKNKVK GAVALAFAH EAAKSYGINV ALHTDHCQKE VLDEYVRPLL AISQERVDRG
ELPLFQSHMW DGSAPVIDEN LEIAQELLAK AKAANIILEV EIGVVGGEED GVEAKAGANL
YTSPEDFEKT IDAIGTGEKG RYLLAATFGN VHGVYKPGNV KLRPEVLLEG QQVARKKLGL
ADDALPFDV FHGGSGSEKE KIEEALTYGV IKMNVDTDTQ YAFTRPIVSH MFENYNGVLK
IDGEVGNKKA YDPRSYMKA EQSMSERIE SCQDLKSVGK TTSK

> RXA01705 (1-603, translated) 201 residues
MGILNSISTP ADLKALNDED LDALAKEIRT FLVDKVAATG GHLGPNLGVV ELTIGLHRVF
DSPQDPPIFD TSHQSYVHKI LTGRAKDFDS LRQKDGLSGY TCRAESEHDW TESSHASAAL
SYADGLSKAK QLDGDTTHSV VAVVGDGALT GCMCWEALNN IAAGKDRKVV VVVNDNGRSY
SPTIGGFAEN LAGLRMQPFY D

> RXA01743 (1-801, translated) 267 residues
MDLNTFWFIL IAFLFAGYFL LEGFDFGVGI LAPIIGKDSA ARNTVIRTIG PVWDGNEVWL
IVAGGALFAA FPEWYATMFS GMYLPLFLVL VSLIMRVVGL EWRKKVDDPR WQKWSdraif
IGSWTPPLMW GFIFANILRG MPLKADHTID AAAALPGMVN VFALILGALAF TALFALHGLA
FIRLKTAGR V RTDAAKAAPV VALLAAVTGG PFVLWAAIAY GRSWSWILAV LIIAAVLGGA
FALIKDRDGL SFLSTSVAVI GVVALLF

> RXA01744 (1-1302, translated) 434 residues
WSEYSRFVGD VFGGPLALEG LIAFFLESVF LGLWIFGWGK IPGWLHTASI WIVAIATNIS
AYFIIVANSF MQHPVGAEYN PETGRAELTD FWALLTNSTA LAAFPHAVAG GFLTATGTFVL
GISGWWIIRA HRQAKKAESE IESKSHMHRP ALWVGWTTV VSSVALFITG DIQAKLMFVQ
QPMKMASAES LCETATDPNF SILTIGTHNN CDTVTHLIDV PFVLPFLAEG KFTGVTLQGV
NQLQAAAEQA YGPGNYSPNL FVTYWSFRAM IGLMLGSLAI AAIWLLLRK KRTPTGKIAR
LFQIGSLIAI PFPFLANSAG WIFTEMGRQP WVVHPNPESA GDARTEMIRM TVDMGVSDHA
PWQVWLTILIG FTILYLILFV VWVWLIRRAV LIGPPEEGAP SVEAKTGPAT PIGSDMPMTP
LQFTAAAPT GEKE

> RXA01745 (1-1494, translated) 498 residues
ILADEDDTVD VGAVIARIGD ANAAAAPAEE EAAPAEEDD VKEEPKKEAA PEAPAAATGAA
TDVEMPELGE SVTEGTITQW LKAVGDTVEV DEPLLEVSTD KVDTEIPSPV AGTIVEILAD
EDDTVDVGAV IARIGDANAA AAPAEEDD AEEEEPVKEE PKKEEPKKEE PKKEAATTPA
AASATVSASG DNVPYVTPLV RKLAEKHGVD LNTVTGTGIG GRIRKQDVLA AANGEAAPAE
AAAPVSAWST KSVDPEKAKL RGTQKVNRI REITAMKTVE ALQISAQLTQ LHEVDMTRVA
ELRKKNKPAF IEKHGVLNTY LPFFVKAVVE ALVSHPNVNA SFNAKTKEMT YHSSVNLISIA
VDTAGLLTP VIHDAQDLSI PEIAKAIVDL ADRSRNNKLK PNDLSGGTFT ITNIGSEGAL
SDTPILVPPQ AGILGTGAIV KRPVVITEDG IDSIAIRQMV FLPLTYDHQV VDGADAGRFL
TTIKDRLETA NFEGDLQL

> RXA01758 (1-1017, translated) 339 residues
MPKYIAMQVS ESGAPLAANL VQPAPLKSRE VRVEIAASGV CHADIGTAAA SGKHTVFPVT
PGHEIAGTIA EIGENVSRWT VGDRVAIGWF GGNCGDCAFC RAGDPVHCRE RKIPGVSYAG
GWAQNIIVPA EALAAIPDGM DFYEPAPMGC AGVTTFNALR NLKLDPGA AVFGIGGLVR
LAIQFAAKMG YRTITIARG LEREELARQL ANHYIDSNDL HPGQALFELG GADLILSTAS
TTEPLSELST GLSIGGQLTI IGVDGGQITV SAAQLMMNRQ IITGHLTGSA NDEQTMKFA
HLHGKPLIE RMPLDQANEA IARISAGKPR FRIVLEPNS

> RXA01814 (1-1662, translated) 554 residues

MAHERAGQLA QPEDLIDVAE LVTAYFTRKP DVNNPDQQVA FGTSGHRGFA LDSAFNEDHI
LATTQAIVDY RNQQPKNWVG PLFIGRDTHA LSEPAMISAL EVLIANDVEV LVDADGRYTP
TPAVSHAILR HNDGIILGTA GPSRPYADGI VITPSHNPPR DGGFKYNPAN GGPADTDTATD
WIANRANDIL RGDLDADVCRV PVSGLDERT TAYDFKGIYI ADLPNVVNID AIREAGVRIG
ADPMGGASVD YWGAIAETHG LNLTVVNPHV DSTFRFMTLD TDGKIRMDCS SPHAMASLID
NRDKFDVATG NDADADRHGI VTPDAGLMNP NYHLAVAIEY LFAHRPGWSA DTAVGKTLVS
SSMIDRVVAQ LGRTLVEVPV GFKWFVPGLI SGEIGFGGEE SAGASFLRMD GTTWSTDKDG
LILDLLAAEI IAVTGKTPSQ' RYAEAEFEFG APAYARTDAE ANREQKAILK ALSPEQVTAT
ELAGEAITAK LTEAPNGAA IGGLKVTTEN AWFAARPSGT EDKYKIYAES FKGEHHLAQV
QKEAQALVSE VLGG

> RXA01839 (1-684, translated) 216 residues

MRMNAPVPLG GTSNHLITGV LKDLGAWDPF NVTEDADLGV RIAAKGYSTA VLDSVTWEEA
NSDTINWLRQ RSRWYKGYLQ TWLVYMRPK WLQVELGIIP AVRFTFLMAG TPPIAVLNLL
FWYLSLTWIL GQPGTIEQMF PPAVYYPALV CLVVANAATI FMNLIGCREG RDPLLLIAVL
TFPLYWLLMS IAALKGTWQL ITRPSYWEKT AHGLEA

> RXA01851 (1-1686, translated) 562 residues

MTSAHFESRR IGPPLRDNYD VIVIGGGISG VQIARHAQGR GLRTVMFEAR DYSSGTSSTT
SKMIHGGRLY LEQYDFGVVQ EAVKERRYLG IAAPHLVAPR SFMLTAFDWS EPKAPMLGAG
VALYETMAWQ RNQGQSKENH SPRFRWIPKN ALLKEVPWLD PEGKLGAWRH DDTLNLHAER
LLLAVIKAF AADGGTAINHA KVTRILRNVE EGRVKGEVET DQVTNTTHEV NAPVVINAAG
PWVAQALGDL AEVTKLKVRQ SKGVHLLTGD LGSQSGVFVR GKNGKHVIVN PWMGRTLIGP
TDTMIDGDAD DAAADESDID LLETIDSVR ATPLDRKEII STLVGVRPLV DDGTDYTTSS
RRFDISDHAN VGIDGLVSVS GSKWTTSRVM GYKVIEWHVE HQAAVLPLR HFDSRQMPLS
TSFGAYESVA DSFESALRSH PELDVDDER VHLARLYGTE HEKVLDLVAK QPDLGRRLLDP
DNLDIAAQAV FAVAEAAVD LADVLDRIIV LGTLGYVQPA AVRATAEAMA QVTGWSAELI
DAQCQSYLAK QDKIQAVLKP YR

> RXA01859 (1-927, translated) 309 residues

MKKKSFPIAR VIGIGVLGIA GMGILLWLIA VTLSDPASPG AKETEVFDRW KVLFDYDIPP
VRVLVAIIIV ALIFVFIAAT VERTVTNRYR SSVDERVPL APKIVMAETR GVFGHPITIN
VLVPAHNEAE RITGTIQALK SQHEPPERIV VVADNCTDET TELARAEGVE VLETVNNKFK
KAGGLNQALS RMLPTLGEND IVMIVDADTA LDQGFLEKEAR RRFESDRALM AVGGFLYGES
GSGWLGGYQR NEYTRYSRDI YRRRGRVFL TGTASAFRPR GLRTVAESRG TLIPGRKADV
YDTAGVDRR

> RXA01865 (1-315, translated) 105 residues

MTYTIAQPCV DVLDRACVEE CPVDCIYEGK RMLYIHPDEC VDCGACEPAC PVEAIFYEDD
VPDEWLDYND ANAAFFDDL G SPGGAAKLGP QDFDHPMIAA LPPQA

> RXA01882 (1-990, translated) 330 residues

MIITFTPNPS IDSTLSLGEE LSRGSVQRLD SVTAVAGGKG INVAVHALLA GFETLAVFPA
GKLDPFVPLV RDIGLPVETV VINKNVRTNT TVTEPDGTTT KLNGPGAPLS EQKLSLEKV
LIDALRPEVT WVVLGSLPP GAPVDWYARL TALIHSARPD VRVAVDTSK PLMALGESLD
TPGAAPNLK PNGLELGQLA NTDGEELEAR AAQGDYDAII AAADVLVNRG IEQVLVTLGA
AGAVLVNAEG AWTATSPKID VVSTVGAGDC ALAGFVMARS QKKTLEESLL NAVSYGSTAA
SLPGTTIPRP DQLATAGATV TQVKGLKESA

> RXA01884 (1-1473, translated) 491 residues

MHVDGFRFDL ASTLAREFDD VDLATFFDL VQQDPVVSQV KLIAEPWDVG EGGYQVGNFP
PLWTEWNGKY RDTVRDFWRG EPATLGEFAS RLTGSSDLYA NNGRRPTASI NFVTAHDGFT
LNDLVSYNEK HNMANGEDGR DGESHNRSWN CGVEGPTDDP EIMQLRAQQR RNFLTLLLS
QGTPLSHGD EMARTQNGNN NVYCDNELA WVNWDQAEEN ADLVSFTRRL LRIRANHPVF
RRRQFLAGGP LGADVDRDI AWLVPNGTLM TQDDWDFAG KSLQVFFNGD AIEEPDYRGQ
KIHDSDFILM FNAHFEPIDF NLPPEHFGMK WKLLVDTEA VGHPLDLTI EAGGTITVPA
RSTMILLRQVE APDYTKLEEK IAAEKREQL AAEKEAAEKR ELELAAAKEA EDAAEALHLA
AERASTQAE LAHQHGADAI ADEVAEEPQE LPQDEVAAEV ETEPDTEPDT ESDSEQA EVA

SEEPEADEEEE K

> RXA01886 (1-774, translated) 258 residues

MTFKLAACAE MIYQDLPFEE RVKTISDQGF LVEIWDWSTK DIDALVATGA EFSSMTGYLR
GDLITEQGRA ELLATASESL AVAEKLNCPK LNLHGTGLGP QGLPVTPIEV VTPEMWLYAA
ETLRQIAELG ERAGKVFLVLE NLNLAVDHPG TPFKATDTL ALVKAVNHPN LRLNLDLYHA
QIGEGNLIEL LREAQPFIEG IQVADVPGRM EPGTGEINYQ GVAKALAAMG YDGVIGMEAW
ASGDSSDALQ ALKSAFTV

> RXA01887 (1-1011, translated) 337 residues

MSVKLALIGA GRIGSNHARL ITNHVIGSEL VAVVDPTPNA ETLADELGAV AFSNPDDVLT
RDDIDAVLIA TPARTHADLV VKAAAAGKHV FVEKPMVTL EDADRINAA REANTVLQVG
FNRRFAAGFA AARARIDAGD IGTPQLLRSV TRDPGPFTAD PNKIPQWTIF LETLIHDFDA
LCYLNPGATP VEVTAHADCL VVPEAAGTGF LDTAVVTVRF DNGAIGTAEA SFSAAAGYDV
RGEVFGSKGM MTAGDARATN MTFYGAEGIA AATSRADTDL LSDAYRAEFQ AFVDSIRTNT
PSKVPGEAAR TALLIALGAI RSVETGATIN LAESIEV

> RXA01888 (1-558, translated) 186 residues

MADVAKAAGV STALVSIVFR DAPGASESTR NHVKEKAAEL GYIPDRRAQK LRQNRSGLLG
VAFEMHQAFH GDIVEHLYPT ARKHGFDLYL SAITPTRTEK DAVNALIRER CEAVILLGSR
MSPSDLETIA QQLPVQVIAR GSGTPKVSSV HVDDAVGAQL ALNHLLIELGH EHIIYIDGGD
APGTQE

> RXA01891 (1-819, translated) 273 residues

YYNKDLWAKA GLEDRGPESW EEFSEWGPKL QEAMDSGFAH GWGDATNYLS WTFEGPMWSL
GGNYSEGWES RLTPPETIRA VEWLKSTVDE GFATVSTDVT NEFATGLIGS CIQSTGDLSS
VAGAASFDWG VAALPNPTGE GACPTGGAGL GIPSGISEQR QDNALKFIDF LTNAANTGYW
SRETGYVPVR KDAASDPDHA AFLEENPAYN VAVEQLPDTR SQDNFRVLLP NGDRTIGDAL
EKICLTGADI DVTLAEVETK LNTIYTRDIE PLI

> RXA01895 (1-816, translated) 272 residues

HHLFQPLLYQ VATGILSSGE IAPSTRQILG SQENVNVIK EVTDINVESQ TVTASLGEFT
RVFEYDSLIV GAGAGQSYFG NDHFAEFAPG MKSIDDALEI RARIIGAFAER AEICEDPAER
ERLLTFVVG AGPTGVELAG QLAEMAHRTL AGEYKNFNTN SAKIILLDGA PQVLPFFGKR
LGRNAQRTLE KMGVNVRLNA MVTNVDATSV TYKTKDGEEH TIESFCKIWS AGVAASPLGK
LVAEQTGIVT DRAGRVMVND DLSVGDQKNV FV

> RXA01901 (1-1260, translated) 420 residues

MVKRQLPNPA ELLELMKFKK PELNGKKRRL DSALTIYDLR KIAKRRTPA AFDYTDGAAE
AELSITRARE AFENIEFHPD ILKPAEHVDT TTQILGGTSS MPFGIAPTGF TRLMQTEGEI
AGAGAAGAAG IPFTLSTLGT TSIEDVKATN PNGRNWFQLY VMRDREISYG LVERAAKAGF
DTLMFTVDTP IAGYRIRDSR NGFSIPPQLT PSTVLNAIPR PWWWIDFLT PTLEFASLSS
TGGTVGDLN SAMDPTISYE DLKVIREMWP GKLVVKGQVN VEDSVKLLDQ GVDGLILSNH
GGRQLDRAPV PFHLLPQVRK EVGSEPTIMI DTGIMNGADI VAAVAMGADF TLIGRAYLYG
LMAGGREGVD RTIAILRSEI TRTMALLGVS SLEELEPRHV TQLAKMVPVS DATRSAAAEI

> RXA01915 (1-1008, translated) 336 residues

IDVSVVVAN FLHREIVEAL LASGKHVLC E KPLSDTIEDA EAMIEAAGRA ATNGTIARIG
LTYRRSPGVA HIRDLVQSGE LGKVLHVTGH YWTDYGSNAQ APISWRYKGP NGSGALADVG
SHLTylaEFV AGSDFAAVRG QQLSTVITER PKPLGAIVGH EGGAVSDEYE AVENDDIASF
SGSFIGGTA TLQVSRISQG HPNTLGFEVF CEKGSVLFDF RNSGEFKIFT PATSGDISQE
AGYRTITIGP KHPYWRGGLA MDAPGVGIGQ NEGTFVQARA FLEEIAGISE AESLPRCATL
EEGLHNMQLI DAVSQSAAAG GETVAVPAAA LIPANN

> RXA01919 (1-285, translated) 95 residues

MTTDDHKQLG IMYIIMSFSF FFLGGLMALL IRAELFTPGL QFLSNEQFNQ LFTMHGTVML
LLYGTPIVWG FANYVLPLPT TXQAFSKTRV NSPRE

> RXA01927 (1-1116, translated) 372 residues

NDTRSAQAAL DLNEEIGGDQ AAVDATGSVY VASLTATKMR WMRDHEPENARTASVMLPH
DFLTWHLMGR GRKVTDHGDA SGTGYYSTRD RAWRTDLAAL ALGHEVELPE LLAPNAIAGT
TPGGVKVAAAG TGDNAAAALG LDLQPGDVSV SIGTSGVAGM TVQHSVHDPS GLVTGFADAT
GAYFPLACTL NGAPVLEFGR RILGVEWEEF DALALAAQPG SGGVTLQPYL EGERTPNRPA
ARGVLAGLNC ATTREDFARA TVEGLLLALD DAVTALVEAT GVPVQRIQLI GGGARSQAVR
EIAPEIFGHE IVVPEPAEYV ALGAARQAAW ALSGEATPPQ WPTPGSDPHR APKNTELSTR
YAKLRAATQG WY

> RXA01952 (1-216, translated) 72 residues
PGLCRQAGRG SQGADDRIQH LLEEHGKKLP AEHNYGRMYK LPESMEEHFK ELDPTNTFNA
GIGGTSPHKD WA

> RXA01955 (1-1599, translated) 533 residues
MTQPGQTTTT SHEAIDAFKR IVGDEHVLTS ERATMPFSKG YRFGGGPVFA VVRPGTLVEM
WRALQVSVDN NLIVIPQASN TGLTGGSGPG FQDYDRPIVI ISTRIDEVH LINDAREAIS
LAGTPLTHLT DALAKHQREP HSVGISTSIG ASVIGGIANN SGGSQIRKGP AFTREAI FAR
VNDDGKVELV NHLGISLGDD PEVALDRLQR GEWSPEDVTP APEDSNETEY AEHLRKIVPS
PARYNANPEY LFEASGSAGK LMFVAVRTRT FPREVHPTVF YIGTNNTHEL EEIRRLFLEA
DMPLPISGEY MGRSAFDLAE KYGKDTFVFL KFMSPALQTR MFSFKTWANG LFSKIPGIGP
TFADTVSQAM FSVLPNQLPK RMMEYRNRFE HLLLLTVSES QKAASEKMLK EFFAEPEHTG
EFFICTSDEE KSASLNRFGA ASAATRYAAL KRRHIAGLIP IDVALRRDDW NWLEVLPEEI
DDQLEVKAYY GHFFCHVMHQ DYVAKQGVDL EALHDRIQHL LEERGAKLPA EHN

> RXA01989 (1-630, translated) 210 residues
VKSIHKTIHE GTGAGSDFLG WVDLPVDYDK EEFSRIVEAS KRIKENSVDL VVIGIGGSYL
GARAAIEMLT SSFRNSNEYEP EIVFVGNHLS STYTKELVDY LADKDFSUNV ISKSGTTTEP
AVAFRLFKQL VEERYGKEEA QKRIFATTDK EKGALKQLAT NEGYETFIVP DDVGGGRYSVL
TAVGLLPIAT AGINIEAMMI GAAKAREELS

> RXA02026 (1-720, translated) 240 residues
PFHIQPETGL LNDPNGLIFY KGKYYVSHQW FPLGAVHGLK YWYNYTSDDL INFKPEGPIL
NPDTKYDSHG VYSGSAFEYN GHLYMYTGN HRDNHWQRHA SQMIARLKED GSVEKFPPKV
ISQQPEGYTS HFRDPKVFKY GEKYYAIIGA QNNDQQGRLL LYNTEDIINW HYLGEINTEL
DDFGYMWECP DYFNLDNQDV ILICPQGIEP KGNQFKNIYQ SGYILGKFID EKLTYEHENF

> RXA02028 (1-426, translated) 142 residues
MSLPIDEHVN AVKTVVVPAA GLGTRFLPAT KTVPKELLPV VDTPGIELIA AEEAELGATR
LAIITAPNKA GVLAFHERSS ELEETLMERG KTDQVEIIRR AADLIKAVPV TQDKPLGLGH
AVGLAESVLD DDEDVVAVML PH

> RXA02054 (1-1017, translated) 339 residues
MTSLLVTTGA GFIGANFVRQ TVEQHPEYTH ITVLDKLTYA GNADNLKGLP DSKVTLIEGD
ICDAELVDSL VKDHDITVHF AAESHNDNSL NDPSPFVHTN LIGTFVLLEA VRKHNRKFHH
ISTDEVFGDL ELDDPNRFTT TAYKPSSPY SATKAGSDHL VHAWIRSFGI QATMSNCSNN
YGPYQHIEKF IPRQITNILA GLTPKLYGTG EQVRDWIHVD DHNDVHLIL SKGKIGETIYI
IGADNDHVN KQVIELICEL MGLDKNAYEH VADRPBGHDMR YAMDSKTLRT ELGWAPKYTD
VDSGMRKGLE QTIDWYRENE AWWRPKANNV EATYAKQGG

> RXA02055 (1-921, translated) 307 residues
MEYGKQLTSH TTDIEGLLVF DFPVHGDNRG WFKENWQRTK MTNLGLPDFG PVQNNSMFNA
TAGTTRGMHA EPWDFVSVVA VGSVFGAWVD LRAGSSTYGN VVTQKITPDV GYVYPRGVAN
GFQALDGTLY TYTLVNDHWS PDAHYNVNL NMIDWPLPIT EISEKDKKHP ALIDATPLPA
RKVLVVGAGG QLGTALRAQF PDAEFVTRQE LDITSDLTEA RAWKQYSTII NAAAYTAVDQ
AEHDRAAAWD INAAAVATSR PSRATTTSPS CTCQIMSSST VRANPTMKTH RFPHSACTAN
PKQPATS

> RXA02056 (1-2868, translated) 956 residues
RHSVPRLTKG QGTIIGVGSM DYPAEFQAS EDRLAELGVG KLVITITSTYD HRVIQGA VSG
EFLRTMSRLL TDDSFWDIEF DAMNVPTPM RWAQDVPNTG VDKNTRVMQL IEAYRSRGHL
IADTNPLSWV QPGMPVPDHR DLDIETHNLT IWDLDRFTNV GFGGKETMT LREVL SRLRA

AYTLKVGSEY THILDRDERT WLQDRLEAGM PKPTQAEQKY ILQKLNAAEA FENFLQTKYV
 GQKRFSLEGA EALIPLMDSA IDTAAGQGLD EVVIGMPHRG RLNVLFNIVG KPLASIFNEF
 EGQMEQQQIG GSGDVKYHLG SEGQHLQMFG DGEIKVSLTA NPSHLEAVNP AMEGIVRAKQ
 DYLDKGVGDK TVVPLLLHGD AAFAGLGIVP ETINLAKLRG YDVGGTIHIV VNNQIGFTTT
 PDSSRSMHYA TDYAKAFGCP VFHVNGDDPE AVVWVGQLAT EYRRRFQKDV FIDLVCYRLR
 GHNEADDPSPM TQPKMYELIT GRETVRAQYT EDLLGRGDLS NEDAEAVVRD FHDQMESVFN
 EVKEGGKKQA EAQTGITGSQ KLPHGLETNI SREELLELGQ AFANTPEGFN YHPRVAPVAK
 KRVSSVTEGG IDWAWGELLA FGSLANSRL VRLAGEDSRR GTFTQRHAVA IDPATAEFNN
 PLHELAQSKG NNGKFLVYNS ALTEYAGMGF EYGYSVGNED SIVAWEAQFG DFANGAQTII
 DEYVSSGEAK WGQTSKLILL LPHGYEGQGP DHSSARIERF LQLCAEGSMT VAQPSTPANH
 FHLLRRHALS DLKRPLVIFT PKSMRLNKAASAPEDFTEV TKFQSVINDP NVADAQVKK
 VMLVSGKLYY ELAKRKEKDG RDDIAIVRIE MLHPIPFNRI SEALAGYPNA EEVLVQDEP
 ANQGPWPFYQ EHLPELIPNM PKMRRVSRRA QSSTATGVAK VHOLEEKQLI DEAFEA

> RXA02061 (1-1494, translated) 498 residues
 MTNVSGYHRP ELHITAESGV LFAPAGVLLD DDTWHFFHQY RSPDHGPRW AHQFAERTPF
 VWDICDDVLA PEGDETQVRA GSVVSNNGGV DLYFTSVVGP TSTIQLAHIN NIRGTTTELIN
 EDELGLDPDV SRIGEVVNT DGIVKFRSPC VIPGWEDQGN RDEGHSGWLM LAVTGPVEAP
 TVVLDSPDG REWSITGPLS LNGLSGLESD EVLVAPRMIR LRDEVDHEIY DVLIVTIEQD
 GIDISGYLVG QLNGSEFDVK TPFTRIDFGH DFSRPRNTNY AETTIGYDFA HIFGLMNGVG
 RLDSPTEHLS WKEEGWANAI SFPRIVTLDQ GTVFQTPPEG LLDAIHESEA AAGWTGLCEI
 PSNSAVEVAL KDQEGEIAAT ITHRHNLV VDRSMNPNHAG DPHAIAPLTD DETDSLFIIVV
 DGSTVEVFAD GGYVSMASRV YFNNGPFSEF EVTTTGDASI IRQESHFPVD FSSVSLDIDD
 LTALMQFDEN EPHEGPVR

> RXA02063 (1-1227, translated) 409 residues
 MVKGVKGRPN VLAIVLAGGE GKRLFPLTED RAKPAVPFPG TYRLIDFVLS NLVNSGFLKI
 AVLTQYKSHS LDRHISLSWN VSGPTGQYIA SVPAQQRLGK RWFTGSADAI LQSLNLISDE
 KPDYVIVFGA DHVYRMDPSQ MLDEHIASGR AVSVAGIRVP REEATAFGCI QSDVDGNITE
 FLEKPADPPG TPDDPDMTYA SMGNYIFTTE ALIQALKDDE NNNSDHDMDG GDIIPYFVSR
 NDAHVYDFSG NIVPGATERD KGYWRDVGTI DAFYECHMDL ISVHPIFNLY NSEWPIHTTS
 EGNLPPAKFV RGGIAQSSMV SSGSIISAGT VRNSVLSNNV VVEEGATVEG AVLMPGVRIG
 KGAVVRHAIL DKNVVVRDGE LIGVDQVRDA QRFKVSAGGV VVVGKNQVV

> RXA02100 (1-918, translated) 306 residues
 IAGKAHPHDM GGKKLMQEIV HFADQAGVRD RFLFLPDYDI NLASYLISGA DVWLNNPVRP
 QEASGTSQGMK AVMNGGLTSL ISDGWDEMT KETGTWTIPT VESQDLECRD HLESQALYDL
 LENEVAPLFY KRDKNGIPQD WLDLVRESWP TLSPMVTSTR MVRDYTTQYY RPTKHQAEI
 AQPAEAADYA AWLEHIKAEW AGVKVSDLKI SESAITAQEL EVSVRVDSGS LNDDEFQAQA
 LFGALGHNGD IEDPEITVLT PRGDGAYAAK VSTDLPNGY ITARVVPNNR MLVSPAETRL
 ITYLEN

> RXA02113 (1-1206, translated) 402 residues
 LGRINAEQON LSEYLSDKLW YQDTADATDA VGDPLVAYFS MEFGIHPSLP IYSGGLGVLA
 GENMKSASDL GVPLIGVGLL YTHGYFTQSL SGDGWQEEY KYHDPALPI EAVKDKNGEQ
 VTVSVTPGA QEVKIALWVA NVGRIPLLLL DTNIEANPEE LRNVTDRLYG GDNEHRIKQE
 LVLGVGGVRA VNAFCEARGL KRSSVAHLNE GHAGFLTLE IRERIAEGME YPAAFEQVRA
 SNIFTTHTPV PAGIDRFDM MVRRLYGGGQ PEDQQLCVGV PIEKALELGQ ESDPHRFNMA
 HMGLRASQHA NGVAKLHGEV SRDMFAGLYP GYEPREVPIG HVTNGVHLPT WVKPEMKELI
 DRVTTGGADLA VADSWSNPQA VESEKIWKVR NKFRADLVEV AR

> RXA02122 (1-699, translated) 233 residues
 MLHVMKPGSH AAAEKTQSTV VLLIRHGQTP TTGQVLPQGT PGLHLSDKGE EQAREVAQRL
 AEVPITAVYS SPMEQAQETA APTVSAHGLE LTVEPGLIEC DFGWTGRKL TELNALEEWK
 AVQKTPSTFR FPGGESFVEM QDRMVEAIGN IAQQHPGEIV AAFSHADTIK AAVAHFVGTP
 LDSFQRIFID TASSISAVEFT GKSSGVSSHM LLTNSRTGSL GYLRLDKLPKA PQP

> RXA02140 (1-1077, translated) 359 residues
 VEQQNKRLGK RKALLGGVLG LGGLAMAGCE VAPPGGVLGD FLRMGWPDGI TPEAVAMGNF
 WSWVWAAWI IGIIMWGLFL TAIFAWGAKR AEKRGEGEFP KQLQYNVPLE LVLTIIVPIII

VMVLFFFTVQ TQDKVTALDK NPEVTVDVTA YQWNWKEFGYS EIDGSLAPGG QDYQGS DPER
QAAAEASKKD PSGDNPIHGN SKSDVSYLEF NRIETLGT TD EIPVMVLPVN TPIEFNLASA
DVAHSFWVPE FLFKRDAYAH PEANKSQRVF QIEEITEEGA FVGRCAEMCG TYHAMMNFEL
RVVDRDSFAE YISFRDSNPD ATNAQALEHI GQAPYATSTS PFVSDRTATR DGENTQSN A

> RXA02142 (1-651, translated) 217 residues
VTLANQTAIL DSVTSVAVGNT GMAAPQRVAA LNRPNMVS VG TIVFLSQELM FFAGLFAMYF
VSRANGLANG SWGEQTDHLN VPYALLITVI LVSSSVTCQF GVFAAERGDV YGLRKWFLVT
IILGSIFVIG QGYEYITLVG HGLTIQSSVY GSAFFIT TGF HALHVIAGVM AFVVVLMRIH
KSKFTPAQAT AAMVVSYYWH FVDVVWIGLF ITIYFIQ

> RXA02143 (1-888, translated) 296 residues
MMETNPQTPE GNSMAKPSAK KVKNNRRKVR R TVAGALALTI GLSGAGILAT AITPDAQVAT
AQRDDQALIS EGKDLVDVAC ITC HGVNLQG VEDRGPSLVG VEGEAVYFQV HSGRMPILRN
EAQAERKAPR YTEAQT LAIA AYVAANGGGP GLVYNEDGTL AMEELRGENY DGQITSADVA
RGDDLFR LNC ASCHNFTGRG GALSSGKYAP NLDAANEQEI YQAMLTGPQN MPKFSDRQLS
ADEKKDIIAF IKSTKETPSP GGYSLGSLGP VAEGLFMWVF GILVLVAAAM WIGSRS

> RXA02144 (1-1224, translated) 408 residues
MSNNNDKQYT TQELNAMSNE DLARLGTELD DVTIAYRKER FPIANDPAEK RAARAVTFWL
VLGIIGGLGF LATYIFWPWE YKAHGDEGLL AYTLYTPMLG ITSGLCILSL GFAVVLYVKK
FIPEEIAVQR RHDGPSEEV D RRTIVAL LND SWQTSTLGR R KLIMGLAGGG AVLAGLTIIA
PMGGMIKNPW NPKEGPMDVQ GDGTLWTS GW TLVENDVKVY LGRDTAAIAE SHTDATGEHW
STTGVSRLVR MRPEDLAAAS METVFPLPAE MVNDGAEYDP AKDVYEHQMH SVHGPRNAVM
LIRLRTADAE KVIEREGQES FHYGDYYAYS KICTHIGCPT SLYEAQTNRI LCPCHQSQFD
ALHYGKPVFG PAARALPQLP ITVDEEGYLI AAGNFIEPLG PAFWERKS

> RXA02147 (1-1017, translated) 339 residues
MFGRRWVS VV ASCVIAS TLI LVPSHSGAEE VDQLIADIEH VSQETSAQNE EVKQLEIDIE
AREVTIKEVQ EQSVSYREAA DQASENVEAY RSEINRIAQA KYRGTVTDPL SIAVSAEDPQ
NVIDRMSYLS TLTKSTSDV V ESLNAET EKS AEAVYQANRT KAEAEFQLGQ LKVRQAELES
EKEALDGRKS EIRDRVDALT PQEREMWVAK NGPLDIDLTD LLGLSAATSG AVDAALSKLG
SPYWG GIGP NEFDCSGLIY WAYQQMGKTL PRTSQAQ MAG GTPVSRDELQ PGDVIGYYPG
ATHVGLYIGD GKIVHASDYG IPVQVVS VDS APFYGARRY

> RXA02149 (1-969, translated) 323 residues
MPQKPASFAV GFDIGGTNMR AGLVDESGRI VTSLSAPSPR TTQAMEQGIF DLVEQLKAEY
PVGAVGLAVA GFLDPECEV V RFAPHL PWRD EPVREKLENL LGLPVRLEHD ANSAAWGEHR
FGAAQGADNW VLLALGTGIG AALIEKGEIY RGAYGTAP EF GHLRVVRGGR ACACGKEGCL
ERYCSGTALV YTARELASHG SFRNSGLFDK IKADPNSING KTITAAARQE DPLALAVLED
FSEWLGETLA IIADVLDPGM IIIGGGLSNA ADLYLDRSVN HYSTRIVGAG YRPLARVATA
QLGADAGMIG VADLARRSVV EAN

> RXA02175 (1-1293, translated) 431 residues
VATDNNKAVL HYPGGEFEMD IIEASEGNNG VVLGKMLSET GLITFDPGYV STGSTESKIT
YIDGDAGILR YRGYDIADLA ENATFNEVSY LLINGELPTP DELHKFNDEI RHHTLLDEDF
KSQFNVFPRD AHPMATLASS VNILSTYYQD QLNPLDEAQL DKATVRLMAK VPMLAAYAHR
ARKGAPYMY P DNSLNAREN F LRMMFGYPTE PYEIDPIMVK ALDKLLILHA DHEQNCSTST
VRMIGSAQAN MFVSIAGGIN ALSGPLHGGA NQAVLEMLD IKS NHGGDAT EFMNKVK NKE
DGVRLMGFGH RVYKNYDPRA AIVKETAHEI LEHLGGDDLL DLAIKLEEIA LADDYFISRK
LYPNVDFYTG LIYRAMGFPT DFFT VLF AIG RLPGWIAHYR EQLGAAGNKI NRPRQVYTGN
ESRKLVPRE E R

> RXA02196 (1-693, translated) 231 residues
MIKAI FWDMD GTMVDSEPQW GIATYELSEA MGRRLTPELR ELTVGSSLPR TMRLCAEHAG
ITLS DADYER YRAGMFARVH ELFDES LVPN PGVTELLTEL KALEIPMLVT TINTERDLATR
SVAAGNEFF IGS IAGDEV P TAKPAPDMYL EAARRVG FDP SECLVFEDSY NGMLGAVTAG
CRVIGLHPEE VQAPEGVVPL RSLHGKNSFE GVTAEMVTAW YHQIEPAGVA K

> RXA02209 (1-1659, translated) 553 residues

VVPSIAGPKR PQDRILLSEA KEQFRKDLPT YTDDAVSVDT SIPATRMVNE GGGQPEGGVE
ADNYNASWAG SGESLATGAE GRPSKPVTV A SPQGGEYTID HGMVAIASIT SCTNTSNPSV
MIGAGLIARK AAEGKLSKP WVKTICAPGS QVVDGYYQRA DLWKDLEAMG FYLSGFGCTT
CIGNSGPLPE EISAINEHD LTATAVLSGN RNFEGRISPD VKMNYLASPI MVIAYAIAGT
MDFDFENEAL GQDQDGNVDF LKDIWPSTEE IEDTIQQAIS RELYEADYAD VFKGDKQWQE
LDVPTGDTFE WDENSTYIRK APYFDGMPVE PVAVTDIQGA RVLAKLGDSV TTDHISPASS
IKPGTPAAQY LDEHGVERHD YNSLGSRRGN HEVMMRGTF A NIRLQNLVD IAGGYTRDFT
QEGAPQAFIY DASVNYKAAG IPLVVLGGKE YGTGSSRDWA AKGTNLLGIR AVITESFERI
HRSNLIGMGV VPLQFPAGES HESLGLDGTE TFDITGLTAL NEGETPKTVK VTATKENGDV
VEFDAICPHR HPR

> RXA02213 (1-717, translated) 239 residues
VTESKNSFNA KSTLEVGDKS YDYFALSAVP GMEKLPYSLK VLGENLLRTE DGANITNEHI
EAIANWDASS DPSIEIQFTP ARVLMQDFTG VPCVVDLATM REAVAALGGD PNDVNPLNPA
EMVIDHSVIV EAFGRPDALA KNVEIEYERN EERYQFLRWG SESFSNFRVV PPGTGIVHQV
NIEYLARVVF DNEGLAYPDT CIGTDSHTTM ENGLGILGWG VGGIEAEAAM LGQPVSMIL

> RXA02245 (1-657, translated) 219 residues
MAQRTPLIAP SILAADFSRL GEQVLAVPDA DWIHVDIMDG HFVPNLSFGA DITAAVNRVT
DKELDVHLM I ENPEKWVDNY IDAGADCIVF HVEATEGHVE LAKYIRSKGV RAGFSLRPGT
PIEDYLDLLE HFDEVIVMSV EPGFGGQSFM PEQLEKVRTL RKVIDERGLN TVIEIDGGIS
AKTIKQAADA GVDAFVAGSA VYGAEDPNKA IQELRALAQ

> RXA02256 (1-1002, translated) 334 residues
MTIRVGINGF GRIGRNFFRA VLERSDDLEV VAVNDLTDNK TLSTLLKFDS IMGRLGQEEVE
YDDDSITVGG KRIAVYAERD PKNLDWAAHN VDIVIESTGF FTDANAAKAH IEAGAKKVII
SAPASNEDAT FVYGVNHESY DPENHNVISG ASCTTNCLAP MAKVLNDKFG IENGLMTTVH
AYTGDQRLHD APHRDLRRAR AAANIVPTS TGAAKAVALV LPELKGKLDG YALRVPVITG
SATDLTFNTK SEVTVESINA AIKEAAVGEF GETLAYSEEP LVSTDIVHDS HGSIFDAGLT
KVSQNTVKV SWYDNEWGYT CQLLRLTEL V ASKL

> RXA02257 (1-1215, translated) 405 residues
MAVKTLDKLL DEGVDRHVI VRSDFNVLN DDREITDKGR IIASLPTLKA LSEGGAKVIV
MAHLGRPKE VNEKYS LAPV AEALSDELQ YVALAADVVG EDAHERANGL TEGDILLLEN
VRFDPRETSK DEAERTAF AQ ELAALAADNG AFVSDGFGVV HRAQTSVYDI AKLLPHYAGG
LVETEISVLE KIAESPEAPY VVVLGGSKVS DKIGVIEALA AKADKIIVGG GMCYTFLAAQ
GHNQQSLLQ EEMKATCTDL LARFGDKIVL PVDLVAASEF NKDAEKQIVD LDSIPEGWMS
LDIGPESVKN FGEVLSTAKT IFWNGPMGVF EFAAFSEGTR GIAQAIIDAT AGNDAFSVVG
GGDSAASVRV LGLNEDGFSH ISTGGGASLE YLEGKELPGV AILAQ

> RXA02258 (1-777, translated) 259 residues
MARKPLIAGN WKMNLDHQA IGTVQKLAFA LPKEYFEKVD VAVTVPFTDI RSVQTLVEGD
KLEVTFGAQD VSQHEGAYT GEVSASMLAK LNCSWVVVGH SERREYHNES DELVAAKAKA
ALSNGISPIV CVGEPLIRE AGTHVEYVVE QTRKSLAGLD AAELANTVIA YEPVWAIGTG
KVASAADAQE VCKAIRGLIV ELAGDEVAEG LRILYGGSVK AETVAEIVGQ PDVDGGLVGG
ASLDGEAFK LAANAASVA

> RXA02259 (1-2772, translated) 924 residues
VFKVVMDFL RDDIRFLGQI LGEVIAEQEG QEVYELVEQA RLTSFDIAKG NAEMDSLQVQ
FDGITPAKAT PIARAFSHFA LLANLAEDLY DEELREQALD AGDTPPDSTL DATWLKLNEL
NVGAEVADV LRNAEVAPVL TAHPTETRRR TVFDAQKWIT THMRERHALQ SAEPTARTQS
KLDEIEKNIR RRITILWQTA LIRVARPRIE DEIEVGLRYY KLSLLEEIPR INRDVAVELR
ERFGEVPLK PVVKPGSWIG GDHDGNPYVT AETVEYSTHR AAETVLKYA RQLHSLEHEL
SLSDRMNKVT PQLLALADAG HNDVPSRVDE PYRRAVHGV GRILATTAEL IGEDAVEGVW
FKVFTPYASP EEFLNDALTI DHSRESKDV LIADDRLSVL ISAIESFGFN LYALDLRQNS
ESYEDVLTEL FERAQVTANY RELSEAEKLE VLLKELRSPR PLIPHSDEY SEVTDRELGI
ERTASEAVKK FGPRMVPHCI ISMASSVTDV LEPMVLLKEF GLIAANGDNP RGTVDVIPLF
ETIEDLQAGA GILDELWKID LYRNYLLQRD NVQEVMLGYS DSNKGGYFS ANWALYDAEL
QLVELCRSAG VKLRLFHGRG GTVGRGGGPS YDAILAQPRG AVQGSVWRITE QGEIISAKYG
NPETARRNLE ALVSATLEAS LLDVSELTDH QRAYDIMSEI SELSLKKYAS LVHEDQGFID

YFTQSTPLQE IGSLNIGSRP SSRKQTSSE DLRAIPWVLS WSQSRVMLPG WFGVGTALQ
WIGEGEQATQ RIAELQTLNE SWPFFTSVLD NMAQVMSKAE LRLAKLYADL IPDTEVAERV
YSVIREEYFL TKKMFCVITG SDDLDDNPL LARSVQRRYP YLLPLNVIQV EMMRRYRKGD
QSEQVSRNIQ LTMNGLSTAL RNSG

> RXA02288 (1-846, translated) 282 residues
MSQVIPASSQ EKRRERIVSY VTRHGFARVE ALAELEFVSA MTIHRDLEAL AADNLVERIR
GGARSVSPSM SELAVEQRRH LHRTVKEALC TAAARLIPEG AVVAIDDSTT LESLVEKLPO
RSPSALITHS LKTMADHRVR AGMSDIRLIA CAGLYFAETD SFLGKATSAQ LNELSADISF
VSTTAVRATG EVPALFHPDM EAADTKRALI GIGSVRVLV DSSKFGSAGV FKVASIEEFD
HIIIDQQCTR EQRDLLRNSR AQIHVIDHNG DEILDTPTEE DF

> RXA02292 (1-675, translated) 225 residues
MDNDFESIEK MSSGDWYVAT GAEREEVAQK TALLFHEYNO IGPTDPARTA EILRTVLNPA
SGTCTIKAPA IIEYGFNTTI GEHVFINFGL TILDIAPVRI GARSMLGPNC QLFTAGHPVD
DWEMRSGGWE NGAPISIGED TWLGGNVTVV GGVSIGDRCV IGAGPVVTKD IPDDSIAGVN
PARVVRKRDD SRLERSQLPE GASVDALGIL PTKSPRLSEN IAEKY

> RXA02322 (1-411, translated) 137 residues
MRIHDVYTHL SADNFPKAEH LAWKFSLAT DPVEVTPDVS EMIINRIIDN AAVSAASVLR
RPVTVARQQA QSHPREKGGK VFGISGSYSP EWAAFANGVA VRELDHFDTF LAAEYSHPGD
NIPPLAVAQ AQRSSGR

> RXA02326 (1-816, translated) 272 residues
MLGRPTKVTP SSKVVGDLAL HLVGAGVDPA DFAADPQKYD IPDSVIAFLR GELGNPPGGW
PEPLRTRALE GRSEKAPLT EVPEEEQAH L DADDSKERRN SLNRLLFPKP TEEFLEHRRR
FGNTSALDDR EFFYGLVEGR ETLIRLPDVR TPLLVRDLAI SEPDDKGMN VVANVNGQIR
PMRVRDRSVE SVTATAEKAD SSNKGHVAA FAVGVTVTVTA EGDEVKAGDA VAIIEAMKME
ATITASVDGK IDRVVVPAA KVEGGDLIVV VS

> RXA02327 (1-960, translated) 320 residues
LLATRVRSFA LKPAEAAVAK LTPELLSVEA WGGATYDVAM RFLFEDPWDR LDELREAMPN
VNIQMLLRGR NTVGYTPYPD SVCRAFVKEA ASSGVDIFRI FDALNDVSQM RPAIDAVLET
NTAVAEVAMA YSGDLSDPNE KLYTLDYYLK MAEEIVKSGA HILAIKDMAG LLRPAAVTKL
VTALRREFDL PVHVHTHDTA GGQLATYFAA AQAGADAVDG ASGTTVWHHL PSHPLSAIVA
AFAHTRRDG LSLEAVSDLE PYWEAVRGLY LPFESGTPGP TGRVYRHEIP GGQLSNLRAQ
ATALGLADRF ELIEDNYASR

> RXA02328 (1-1383, translated) 461 residues
ASEAVRIGTE GSPVKAYLDI DEIIGAANKV KADAIYPGYG FLSENAQLAR ECAENGITFI
GPTPEVLDLT GDKSRVATA KKAGLPVLA STPSKNIDEI VKSAEGQTYF IFVKAVAGGG
GRGMRFVASP DELRKLATEA SREAEAAFGD GAVYVERAVI NPQHIEVQIL GDHTGEVVHL
YERDCSLQRR HQKVVEIAPA QHLDPELRDR ICADAVKFCR SIGYQGAGTV EFLVDEKGNH
VFIEMNPRIQ VEHTVTEEV EVDLVKAQMR LAAGATLKEI GLTQDKIKTH GAALQCRITT
EDPNNNGFRPD TGTITAYRSP GGAGVRLDGA AQLGGEITAH FDSMLVKMTC RGSDFETAVA
RAQRALAEFT VSGVATNIGF LRALLREEDF TSKRIATGFI ADHPHLLQAP PADDEQGRIL
DYLADVTVNK PHGVRPKDVA APIDKLPNIK DLPLPRGSRD R

> RXA02329 (1-603, translated) 201 residues
TATRQSRKGE ISSWKAFAPA FAGKMAIEM DRAMRGEESP APIWEGEDGV IAWLLSGKDH
VYHVPLPEH EPKLGILEY TKEHSAEYQS QAPIDLARM KPLVDAAGGT EHIAEIVLRT
SHHTHYVIGT GANDPQKMDP QASRETLDSH IMYIFAVALQ DGVWHHEFSY TRKRSTRPET
VELWHKIRTV EDPEWTRRYH S

> RXA02332 (1-1143, translated) 381 residues
MSDSQVRKGL NGVISDYTSI SKVMPESNSL TYRGYAVEDL VENCSEFEVI YLLWFGELPT
TEQLRTFNTT GRSYRSLDAG LISLIHSLPN TCHPMDVLRT AVSYMGT FDP DPFTTRDADHI
RSIGNHLLAQ LPMVVAMDIR RRSGEIIP DHNKGIASF LSMVFGNDDG SVANSADDIR
DFERSLILYA EHSFNASTFS ARVISSTRSD TYSAITGAIG ALKGPLHGG A NEFVMHTMLD
IDDPNNAADW MGKALDRKER IMGFGHRVYK NGDSRVPSME KSMRSLAARH RGQKVVHMYE

SMQEVMEART GIKPNLDFPA GPAYYMLGFP VDFFTPLFVL ARVSGWTAHI VEQFENNALI
RPLSAYNGVE EREVVPISER T

> RXA02333 (1-219, translated) 73 residues
EIGYNAVIYP VTTLRIAMGQ VEQALAEIKE HGTQEGWLDL MQHRSRLYEL LRYEDYNVFD
QHIFTYRKGE NNE

> RXA02379 (1-705, translated) 235 residues
MRKHRWANAA GLYADTVAES TIGLILAQMH MHATTRLAKS WSVRPEVENN KSWLHDNKT
AILGAGGIGV RLLEMLKPFN VKTIAVNNNSG RPVEGADETF AMDKAEHVWA EADVFLILP
LTDATYQIVN AETLGKMKPS AVVVNVGRGP LINTDDLVA LNNGTIAGAA LDVTDPEPLP
DSHPLWEMDN VVITPHTANT NERIRALTGE LTLRNIELFE AGEQMATEVD VVAGY

> RXA02399 (1-1296, translated) 432 residues
MSNVGKPRTA QEIQDQWDTN PRWNGITRDY TADQVADLQG SVIEEHTLAR RGSEILWDAV
TQEGDGYINA LGALTGNQAV QQVRAGLKAV YLSGWQVAGD ANLSGHTYPD QSLYPANSVP
SVVRRINNAL LRSDEIARTE GDTSDVNWV PIVADGEAGF GGALNVYELQ KAMIAAGAAG
THWEDQLASE KKCCHLGGKV LIPTQQHIRT LNSARLAADV ANTPTVVIAR TDAEAATLIT
SDVDERDQPF ITGERTAEGY YHVKNLEPC IARAKSYAPY ADMIWMETGT PDLELAKKFA
EGVRSEFPDQ LLSYNCSPSF NWSAHLEADE IAKFQKELGA MGFKFQFITL AGFHSNLNYGM
FDLAYGYARE GMTSFVDLQN REFKAEEERG FTAVKHQREV GAGYFDQIAT TVDPNSSTTA
LKGSTEEGQF HN

> RXA02404 (1-2136, translated) 712 residues
MQVAKVLYDF VTEAVLPRVG VDAEKFWSGF AAIARDLTPR NRELLARRDE LQMLIDDYHR
NNSGTIDQEA YEDFLKEIGY LVEEPEAAEI RTQNVDTAIS STAGPQLVVP ILNARFALNA
ANARWGSLYD ALYGTNAIPE TDGAEGKKEY NPVRGQKVIE WGREFLDSV PLDGASHADV
EKYNITDGKL AAHIGDSVYR LKNRESYRGF TGNFLDPEAI LLETNGLHIE LQIDPVHPIG
KADKTGLKDI VLESATITIM DFEDSVAADV AEDKTLGYSN WFGLNTGELK EEMSKNGRIF
TRELNKDRVY IGRNGTELVL HGRSLLFVRN VGHLMQNPSI LIDGEEIFEG IMDAVLTTVC
AIPGIAPQNK MRNSRKGSYI IVKPKQHGE EVAFTNELFG RVEDLLDLPR HTLKVGVMD
ERRTSVNLD SIMEVADRLA FINTGFLDRT GDEIHTSMEA GAMVRKADMQ TAPWKQAYEN
NNVDAGIQRG LPGKAQIGKG MWAMTELMAE MLEKKIGQPR EGANTAWVPS PTGATLHATH
YHLVDVFKVQ DELRAAGRRD SLRNILTIST APNTNWSEEE KKEEMDNQC SILGYVVRWV
EHGVGCSKVP DIHDIDLMD RATLRISQ M LANWIRHDV SKEQVLESLE RMAVVVDKQN
AGDEAYRDM PKYDASLAFQ AAKDLIFEGT KSPSGYTEPI LHARRREFKA KN

> RXA02414 (1-747, translated) 249 residues
MSYNPYNNT NFSTTGAFQP AGGPVKPWNK PDASLNQQLK NKSRTVTLT IAIGYVVVVI
AVHLASIVIA LLTGFNLTNF GIHPLDTSAL WGHTSPLH GSFSHLIGHT VPGFIFSFLI
GMSGKRVFWE VTIIAGLIG LGTWIFGGIG TNHIGASGLI YGWLGYLIVR GIFNKDIKQF
LLGIVLAFIY SGLFWGLLPT QIGVSWQGH FGLGGIGAG AFIASDDPAA LKAKKQKKL
EKQQRQRL

> RXA02435 (1-558, translated) 186 residues
VTDNLGSTSI GDAWILYAPL MDDGGFGPLR AIGGMFLHIG PGHMLNLVL LWLLGREIER
DFGSALFTAM YFVGIGGASA AVIWMDDPSP TAGASGAIYA MMAILVGLFV LRSADIRAPL
ILIAINIAYT LMSTNVSLWG HLGGLITGAL ITWPMVKAKT QRTRWIIVLI GFAVVVAIVI
LGIDRV

> RXA02440 (1-840, translated) 280 residues
MVSHGAPGDT FWDLVKGA EDAQKDNVEL RYSSNPEIPE QSNLVQNAID SRVDGIAMTM
PNAQSLGPVA QKAVDAGIPV VGLNAGMNEY QDYGMTGFFG QDESAGASA GARLAEENAO
KVLVCIHEQG NSSQEARCGG VSEGLGKQVE TLYVNGMDLT SVNSTLQAKL AQDRSIDWV
GLQAGVSMI SDAADAANSE VKIATFDTNA QLMTAIRDGK IQFAIDQQPY LQGYMAVDSL
WLAHRNGTTV GGRPVYTG AIVDATNVDV IAEAVGEGLR

> RXA02453 (1-753, translated) 251 residues
MKSIFISGAA NGIGKAVALK FLHEGWLVGA YDLAEITYSH PNLRWGYLNV RQSESWDKAL

EDFATHTGGT IDVVDNNAGV IIEGPLQDAE EGSVDKLLAI NVNGVTLGAR AAHPYLARTP
GAQLLNMSA SAVYGGPQIA VYSASKFYVA GLTEALNLEW RKDDIRVVDV WPLWAKTDLV
NGVKAKSLKR LGVRITPEQV AQAVWDAVHP KSRWAKGKVH HGVSKLDKAL YLMKSLSPDR
VAMCFARLIA G

> RXA02474 (1-774, translated) 258 residues
MSKVAMVTGG AQQIGRGISE KLAADGFDIA VADLPQQEEQ AAETIKLIEA AGQKAVFVGL
DVTDKANFDS AIDEAAEKLK GFDVLVNNAG IAQIKPLLEV TEEDLKQIYS VNVFSVFFGI
QAASRKFDL GVKGKIINAA SIAAIQGFPI LSAYSTTKFA VRGLTQAAAQ ELAPKGHTVN
AYAPGIVGTG MWEQIDAELS KINGKPIGEN FKEYSSSIAL GRPSVPEDVA GLVSFLASEN
SNYITGQVML VDGGMLYN

> RXA02480 (1-849, translated) 283 residues
LSIGALSMAY WAHMFVGTGA VLLPFFSEMT FLISVPTGVK FFWVGTMMWK GHITWETPMI
WSVGFMATFL FGGLTGIMLA SPPLDFHLAD SYFLIAHFHY TLFGTVVFAS CAGVYFWFPK
MTGRMMDERL GKIHFVLTFTV GFHGTFLIQH WVGNMGMPPR YADYLDSDGF TIYNQISTVF
YFLLGLSVIP FIWNVFKSWR YGELVTVDLP WGYGNSLEWA TSCPPPRHNF ASLPRIRSER
PAFELHYPHM IERMRAEAHT GHDDINAPE LGTAPALASD SSR

> RXA02481 (1-612, translated) 204 residues
MLTGFLTPGG AADLGGPCTP HCLTQFTPOA LVLTGCLSGV GATGIGSVAS AINMLTTILC
LRAPGMTMFR MPIFTWNIFV VSVLALLIFP LLLAAALGVL YDRKLGGHLY DPANGGSLW
QHLFWFFGHP EVYVLALPFF GIVSEIIPVF SRKPMFGLRR PDLRNLVHWC TVHGCVGSPH
VRYWRSFASV LLLHDVPDFG SYRR

> RXA02485 (1-1101, translated) 367 residues
LDSSLAQEIA AIDGVELDSE VTFADLTTLR IGGKPRSAVR CQTTEALVSA IKLLDDASLP
LLIVGGGSLN VVADGDLVDI AVIIETDDVS INLTDGLLTA DAGAVWDDV HLSVDAGLGG
IECLSGIPGS AGATPVQNVG AYGTESVDVL TRVQLDRTT HQVSWVDASE LDLSYRYSNL
KFTNRAVLA IELQLLTDGL SAPLRFELG RRLAISEAEP HPRRPVRMVR DAVLELRAK
GMVVEHTDHD TWSAGSFFTN PIVDPALADA VFEKVGEPTM PRFPAGDGKE KLSAAWLIER
AGFKKGHPGA GAKASLSTKH TLALTNRGDA RASDLVALAK EIRDGVLETF GVTLVPEPVW
IGISIDD

> RXA02492 (1-717, translated) 239 residues
MTNGKLILLR HGQSEWNASN QFTGWVDVNL TEQGEAEAKG VLPGVVYTSI LRRAIRTANI
ALNAADRHWI PVIRDWRLE RHYGALQGLD KAATKEKYGD DQFMEWRRSY DTPPELADD
AEYSQANDPR YADLDVVPRT ECLKDVVVRV VPYFEEIILP RAKKGETVLI AAHNSLRAL
VKHLDGISDA DIAELNIPTG IPLVYEIAED GSVVNPGGTI LDPEAAAAGA AAVANQGNK

> RXA02528 (1-975, translated) 325 residues
MSAKSSLKEV AELAGVGYAT ASRALSGKGY VSPQTREKVQ AAAKELNYVP NQLAKALREH
RSALVGIVP DLSNEYSES LQTIQDLKA AGYQMLVAEA NSVQAQDVVM ESLISIQAAG
IIHVPVVGSI APEGIPMVQL TRGELGPGFP RVLCDDEAGF FQLTESVLGG SGMNIAALVG
EESLSTTQER MRGISHAASI YGAEVTFHFG HYSVESGEEM AQVVFNNGLP DALIVASPR
MAGVMRAFTR LNVVRPHDVV IGGYDDPEWY SFVGAGITTF VPPHEEMGKE AVRLLVDLIE
NPELPTGDVV LQGQVILRGS STHSG

> RXA02539 (1-1518, translated) 506 residues
MTVYANPGTE GSIVNYEKRY ENYIGGKWVP PVEGQYLENI SPVTGEVFCF VARGTAADVE
LALDAAHAAA DAWGKTSVAE RALILHRIAD RMEEHLEEIA VAETWENGKA VRETLAADIP
LAIDHFRYFA GAIRAQEDRS SQIDHNTVAY HFNEPIGVVG QIIPWNFPIL MATWKLAPAL
AAGNAIVMKP AEQTPASILY LINIIGDLIP EGVLNIVNGL GGEAGAALSG SNRIGKIAFT
GSTEVGKLIN RAASDKIIPV TLELGGKSPS IFFSDVLSQD DAFAEKAVEG FAMFALNQGE
VCTCPSRALV HESIADEFLE LGVKRVQNIK LGNPLDTETM MGAQASQEQM DKISSYLKIG
PEEGAQTLTG GKVNKVDGME NGYYIEPTVF RGTNDMRIFR EEIFGPVLSV ATFSDFDEAI
RIANDTNYGL GAGVWSRDQN TIYRAGRAIQ AGRVWVNQYH NYPASAFGG YKESGIGREN
HLMMLNHYQQ TKNLLVSYDP NPTGLF

> RXA02551 (1-360, translated) 120 residues
MSVCEAHNPE NYSTGGGNII GGVVSPTLAA SEWGWQVDPL GLRIVLNYYW ERWQKPLFIV
ENGLGAKDVL IDGPSGPTVN DDYRIKYLDD GSGGILKRYK KKSFDWCRDI IATNGESLES

> RXA02556 (1-1158, translated) 386 residues
LIVSTQIPITD RSALSAEHAE VIKATLPLVG GKINEITPVF YNKMFAAHPE LIANTFNNGN
QKQGDQKAL AASIATFATM LVTPDAPDPV QLLSRIGHKH VSLGITADQY DIVHEHLFAA
IVEVLGAETV TAPVAEAWDA VYWIMANVLI GFENNLYASN DLEPGDVFRE VTVTAKKQLS
ATVWEYTLAG ELVAPEPGQY TSIGVVLDG ARQLRQYSLG GSDTEYRIA VEDNGEVSGF
LRDRVSVGDK IEATIAAGDL VLNKDTNPVV LISQGIGSTP MVGMLAGMNP ERDVVVLHAD
QAESTYAQVE EVQGLVEKLP KAAFEIFYRD NDQWLEVAGR IPSGASVYLC GGVEFLKNVR
EQIEALDEQP RDVNFELFAP NDWLIS

> RXA02560 (1-822, translated) 274 residues
MQGNSLNLAD NSERKKPMPS PGELLAARYG QPATWTPPPQW NETLDVIHQH RSVRRWLDPK
VDDDTIRTII SAAQSAGTSS NKQVISVIVV KDPRLRKGLA GITRQMFPHL EQVPAVLIWL
IDYSRISAVA AREDLPTGAL DYLDAAWGF LDAGIAAQNA AIAAESLGLG TLYLGSVRND
AEAVHKLGL PPEIVPVVGL EMGHADPPEP AGIKPPLPQE AIVHWDTYPE KNLELIDSYD
RALDTYYSRY GQHQLWSKQT AHRAASKRCY KNQE

> RXA02572 (1-645, translated) 215 residues
AVAEICEPTG ADAVALVDAL GHDDRIGRKF LGAGLGFGGG CLPKDIRAFM ARAGELGADQ
ALTFLREVDS INMRRRDRVV QLAKEMCGGS LLGKRVTVLG AAFKPNSDDV RDSPALSVAG
SLSLQGAASV VYDPEAMDNA RRVFPTLSYA SSTKEALIDA HLVVLATEWQ EFRDLDPEDA
GGVVEKRAII DGRNVLDVAK WKAAGWEMEA LGRNL

> RXA02596 (1-489, translated) 163 residues
PVVYTGPLDL YFNIAEGKLG WRTLDFETEV VETGDFQGT VMNYNDADVP FTRIHEFRHF
HPERDDSYPK DKTIVMREFS RFADNEDEPY YPINTPDDR MLKQYRLLA EEAANNKVLF
GGRGLTYQYL DMHMAIGSAL SMFDNKLVPF FEETPLEQE RGH

> RXA02611 (1-1752, translated) 584 residues
DAWSDPMATW RHAITTKIEA GQGSDELYND FEHGAQLFER AAENLSKEDR TALFDVASSL
RRGGDVRARL APALTASVTH LLELNPLREL VTMGENLQVR VERRAALVNS WYELFPRSTG
GWDESGTPVH GTFATTAQAL ERVAKMGFDT VYFPIHPIG EVNRKGRNNT LTPEPHDVGS
PWAIGSKDGG HDATHPRLGT IEDFQALLAR ARELNLEVAL DLALQAAPDH PWAQEHREFF
TVLADGTIAY AENPPKQYQD IYPINFNDNA PKIYEEVYRV VKFWVDLGV TFRVDNPHTK
PANFWQWLIS AIHKSNEVI FLAEASTRPA RLYFLSKIGF SQSYTYFTWK VTNEELTEFA
TEIAPMADIS RPNLFVNTPD ILHASLQHG RAMFAIRAL AATMSPVWGV YSGYELFEHE
AVKPGSEYEL DSEKYLRLPR DFEGALERGD SLEDYIALLN QIRANPALQ QLRNIHFHEA
DNDQIIAYSK VDALTGNTVL IVVNLDPRA REATVRLDLG ALGLEAGAQF EVRDAITGSR
YLWSETNFVR LEPLRDVAHI FVLPELPASR RERLAWREIK TYRA

> RXA02612 (1-2193, translated) 731 residues
MTVDPASHIT IPEADLARLR HCNHHDPHGF YGWHETEAGS VIRTRQVGAT QVNLLIDDT
HVMTPIGDDI FAIDLGHRR ADYRLEVTPW DQEPQVKADP YYFLPTVGEM DIYLFSEGRH
ERLWEILGAN IKTYQTALGT VRGTAFTVWA PNAIGCAVVG GFNGWNASQH PMRSMGSGSL
WELFIPGIEE GEVYKFAVQT REGQRRDKAD PMARRAELAP ATGSIVASSE YQWQDSEWLR
ERSQTDLASK PMSVYEVHLG SWRWGKNYED LATELVYVA DLGYTHVEFL PVAEHFPFGS
WGYQVTGYA PSTRWGTPDQ FRALVDAFHA RGIGVIMDWV PAHFPKDDWA LARFDGEALY
EHPDWRERGE KDWGTLVDFD GRNEVRNFLV ANALYWIEEF HIDGLRVDV ASMLYLDYSR
EHGEWEPNIY GGRENLEAVQ FLQEMNATVL RLHPGALTIA EESTSWPGVT APTWDGGLGF
SLKWNMGWMH DTLEYFSKNP VHRAFHSEL TFSLVYAFSE RFVLPISHDE VVHGKGSWLD
RMPGDTWNKA AGLRTFLAYM WSHPGKKLLF MGQEFQREE WAEGQGLPWD IVDGWQGEYH
EAIRTLTRSL NGVYSDSPAL HTQDFTGEGF TWNKGDATN NILAFTRFGS DGSQMLCVFN
LSGTSQPEYQ LGVAAGGEWK LVLNTDDAEF LGAENDIATS VQAAATPRDN FAYSLSLHVP
AMSAQFYSLO K

> RXA02621 (1-819, translated) 273 residues
MSELICGPAI LFAPAGRAEI IPKAASKADM VIIDLEDGAG EVDREVAYRN IRESGLDPKR

TIVRTVGPSPD PHFLADVEMV KSTDFTLVMV PKLLGSVPPEE LDGLNIIAMI ETPQAATSIP
QIAADPKVVG MFWGAEDLTH LLGGTHSRFL GDESNESYR DTMRLTRALM HLHAAANGKF
TIDAIHADFH DEEGLYLEAV DAARTGFAGT ACIHPKQIEI VRRAYRPEAN QLEWAKKVVE
EAENHPGAFK LDGQMIDAPL ISQARMVISR QPA

> RXA02640 (1-1527, translated) 509 residues
MRISKANAYV AAIDQGTST RCIFIDAQK VVSSASKEHR QIFPQQGWVE HDPEEIWDNI
RSVVSQAMVS IDITPHEVAS LGVTNQRETT VVWDKHTGEP VYNAIVWQDT RTSDICLEIA
GEEGQEKWLD RTGLLINSYP SGPKIKWILD NVEGARERAE KGDLLFGTMD TWVLWNLTGG
VRGDDGDDAI HVTDTVNASR TLLMDLRTQQ WDPELCEALD IPMSMLPEIR PSVGEFRSVR
HRGTLADVPI TGVLDGQQA LFGQGGFHEG AAKNTYGTGL FLLMNTGTSL KISEHGLLST
IAYQREGSAP VYALEGSVSM GGSLVQWLRD NLQLIPNAPA IENLAREVED NGGVHVVPAPF
TGLFAPRWRP DARGVITGLT RFANRKHIAV AVLEANAFQT REVVDAMAKD AGKALESRLV
DGAMVENDLL MQMQADFLGI DVQRLEDVET TAVGVAFAG LGSGFFKTTD EIEKLIIVKK
VWNPDMSSEE RERRYAEWNR AVEHSYDQA

> RXA02642 (1-498, translated) 166 residues
MTESKNYDLI VVGSGLFGLT VAERAASQLG KKVLIIVERRS HLGGNAYSEA EPETGIEIHK
YGAHLFHTSN TRVWEYVNQF TSFTGYQHRV FAMHNGTAYQ FPMGLGLINQ FFGKYSPDE
ARELIKEQSA EIDSSDATNL EEKAISLIGR PLYEAFIRDY TAKQWQ

> RXA02654 (1-885, translated) 295 residues
MISLLNDPRT LFPKVDPPKQ SQPEPGLDIK LSPQADIGLS SYQGSGRLLK RKALITGGDS
GIGAAVAIAY AREGADVAIA YLPEEQADAD RVLQAIEETG QKAFSFPGLD RDPEYCRSLV
QETVNALGGL DILVNNASRQ VWAPGLTEIT DENFDQTLQV NLYGSFRVTK AAIPHLKPGS
SIIFTSSIQA YQPSETLLDY AMTKAALNNL SKGLASSLIG DGIRVNSVAP GPFWTPLQPS
HGQPQEKIEG FGQHAPIGRA GHPVELAGAY VFLASDEASY VVGETLGVTG GTPTP

> RXA02666 (1-768, translated) 256 residues
MSSTRIPVIA LLAAAGRGTR LGGPIPKAFV TLRETTLLER SLQAMLTSES VDEIIILVSP
DMETYARDLL RKRGLLNDPE GVRVRLVHGG GERADSVWAG LQAISLDDAT PDAIVLIHDS
ARALTPPGMI ARVVRKVHEG ATAVIPVLPV SDTIKRVSPD GGVVVDTPNR AELRAVQTPQ
GFLSELVAA NEKFFADPNP GFIPTDASL MEWYGADVVC VQGDPMFAKV TTPIDMMLAQ
RITDEAEPTI FEVPGD

> RXA02675 (1-363, translated) 121 residues
ILMTGMRHEN FGIMIARGDL AVELGFDRMA EVPQLIMALA EAAHVPTILA TQVLENMAKN
GLPSRAEITD AAMALRAECV MLNKGPHIND AIKVLTEMSR KLGASQRKSR LLLRKVKSW
E

> RXA02694 (1-942, translated) 314 residues
MKETVGKIV LIGAGDVGA YAYALINQGM ADHLAIDID EKKLEGNVMD LNHGVVWADS
RTRVTKGTYA DCEDAAMVVI CAGAAQKPGE TRQLQVDKNV KIMKSIVGDV MDSGFDGIFL
VASNPVDILT YAVWKFSGLE WNRVIGSGTV LDSARFRYML GELYEVAPSS VHAYIIGEHG
DTELPVLSSA TIAGVSLSRM LDKDPELEGR LEKIFEDTRD AAYHIIDAKG STSYGIGMGL
ARITRAILQN QDVAVPVSA LHGEYGEEDI YIGTPAVVNR RGIRRVVELE ITDHEMERFK
HSANTLREIQ KQFF

> RXA02695 (1-1422, translated) 474 residues
MNEFDQDILQ EIKTELDELI LELDEVQTTH SEAIGQVSPT HYVGARNLMH YAHLRTKDLR
GLQQRLLSSVG ATRLTTTEPA VQARLKAARN VIGAFAGEGP LYPPSDVVD AFEADEILDE
HAEILLGEPL PDTSPCIMVT LPTEAATDIE LVRGFAKSGM NLRINCAHD DETVWKQMD
NVHTVAEEVG REIRVMDLA GPKVRTGEIA PGAEVGRARV TRDETGKVL TPAKLWITAHG
SEPVPAPESL PGRPALPIEV TPEWFDKLEI GSVINVPDTR GSRRFTVTR VFDGAVLAEG
PQKAYISNGT LLEHNYDRSR VYGIPAVVQR INLKVGDRLI LTDEELTYDP SLGSGRTPRI
SCTLPQAVDA IKVGHVFLFD DGAIAAVCID KTSTADGHND VELEVTHARP QGVNLAAYKG
INLPDSELPL PSLTEEDLQH LRFVVKYADI AAISFIRNVA DVEYLLQALA DIGD

> RXA02729 (1-744, translated) 248 residues

MDSPMSNSTG TDIVVVGSI ADLTAKVQRH PEPGETLLGS GGTVSAGGKG ANQAVAAAQL
GAKVTMIGAV GTDQMAGEAL THLRQSGADM SAIATVDGPT GLAIITVSDD GENTIIVIPG
ANASVTAEFV DKHSQLIENA GIVLLQGEIP ADGFERAVDL SQGRVVINLA PVVPVGHQDL
RRADPLLNE HEGALVLDML GTPATTSDPQ SLVTELLEQG FTSVVMTLGA EGALVGTPGQ
LTAITPK

> RXA02730 (1-1038, translated) 346 residues

MATEKFRPTL KDVARQAGVS IATASRALAD NPAVAASTRE RIQQLASDLG YRANAQARAL
RSSRSNTIGV IVPSLINHYF AAMVTEIQST ASKAGLATII TNSNEDATTM SGSLEFLTSH
GVDGIICVPN EECANQLEDL QKQGMPPVVLV DRELPGDSTI PTATSNPQPG IAAAVELLAH
NNALPIGYLS GPMdTSTGRE RLEDFAACA NSKIGEQLVF LGGYEQSVGF EGATKLLDQG
AKTLFAGDSM MTIGVIEACH KAGLVIGKDV SVIGFDTHPL FALQPHPLTV IDQNVQLAQ
RAVSILTELI AGTVPSVTKT TIPTALIHRE SIINSTLRKK DGLPNE

> RXA02737 (1-1542, translated) 514 residues

VSTNTTPSSW TNPLRDPQDK RLPRIAGPSG MVIFGVTGDL ARKKLLPAIY DLANRGLLPP
GFSLVGYGRR EWSKEDFEKY VRDAASAGAR TEFRENVWER LAEGMEFVRG NFDDDAAFDN
LAATLKRIDK TRGTAGNWAY YLSIPPDSTF AVCHQLERSG MAESTEEAWR RVIEKPFPGH
NLESAHELNQ LVNAVFPES VFRIDHYLGK ETVQNILALR FANQLFEPLW NSNYVDHVQI
TMAEDIGLGG RAGYYDGIGA ARDVIQNHLL QLLALVAMEE PISFVPAQLQ AEKIKVLSAT
KPCYPLDKTS ARGQYAAGWQ GSELVKGLRE EDGFNPESTT ETFAACTLEI TSRRWAGVPF
YLRTGKRLGR RVTEIAVVFV DAPHQPFDDG MTVSLGQNAI VIRVQPDGEV LIRFGSKVPG
SAMEVRDVNM DFSYSESFTE ESPEAYERLI LDALLDESSL FPTNEEVELS WKILDPILEA
WDADGEPEDY PAGTWGPKSA DEMLSRNGHT WRRP

> RXA02738 (1-1080, translated) 360 residues

MSHIDDLAQL GTSTWLDDL RERITSGNLS QVIEEKSVVG VTTNPAIFAA AMSKGDSDYA
QIAELKAAGA SVDQAVYAMS IDDVARNACDL FTGIFESSNG YDGRVSIQVD PRISADRDAT
LAQAKELWAK VDRPNVMIKI PATPGSLPAI TDALAEGISV NVTLIFSAR YREVIAAFIE
GIKQAAANGH DVSKIHSVAS FFVSRVDVEI DKRLEAIGSD EALALRGKAG VANAQRAYAV
YKELFDAEAL PEGANTQRPL WASTGVKNPA YAATLYVSEL AGPNTVNTMP EGTIDAVLEQ
GNLHGDTLN SAAEADAVFS QLEALGVDLA DVFQVLETEG VDKFVASWSE LLESMEARLK

> RXA02739 (1-2100, translated) 700 residues

LTTLTLSPEL QALTVRNYP DWSDVDTKAV DTVRVLAADA VENCSGSGHPG TAMSLAPLAY
TLYQRVMNVD PQDTNWAGR RFLVSCGHSS LTQYIQLYL GFGLEMDDLK ALRTWDSLTP
GHPEYRHTKG VEITTGPLGQ GLASAVGMAM AARRERGLFD PTAAEGESPF DHHIYVIASD
GDLQEGVTSE ASSIAGTQQL GNLIVFWDN RISIEDNTEI AFNEDVVARY KAYGWQTIEV
EAGEDVAAIE AAVAEAKKDT KRPTFIRVRT IIGFPAPTMM NTGAVHGAAL GAAEVAATKT
ELGFDPEAHF AIDDEVIAHT RSLAERAAQK KAAWQVKFDE WAAANPENKA LFDRLNSREL
PAGYADELPT WDADEKGVAT RKASEAALQA LGKTLPELWG GSADLAGSNN TVIKGSPSFG
PESISTETWS AEPYGRNLHF GIREHAMGSI LNGISLHGGT RPYGGTFLIF SDYMRPAVRL
AALMETDAYY VWTHDSIGLG EDGPTHQVPE TLAALRAIPG LSVLRPADAN ETAQAWAAL
EYKEGPKGLA LTRQNVVLE GTKEKAAEGV RRGYVLEVEG SKETPDVILM GSGSEVQLAV
NAAKALEAEG VAARVSVPC MDWFQEQDAE YIESVLPAAV TARVSVEAGI AMPWYRFLGT
QGRAVSLEHF GASADYQTLF EKFGITTDV VAAAKDSING

> RXA02740 (1-930, translated) 310 residues

LDTIKAYIAL TKPRVIELL VATIPTMLQA ERGENNIVLI LLTVFGGWMG AAAANTFNMV
ADSDIDQRMG RTRARPLVRH TVSNRDASIF AWWLTVASFL WLWLLCDSML AGIFVLITIF
FYIFVYTKWL KRRTHMNIVW GGAAGCMPVL VGWAVIVDQF EPGVPQQWWQ AIVLFMVIFF
WTPPHTWALA MKYREDYKAA GVPMLPVVRT PVQVTAQIVW YSVATVLTTF LLIPATGWII
AAIAVISGVT FLFMAIKLHL GIKNGGKVKP LKLFILSNNY LAVLFVALSV DAVLGLETIG
EMLGWTTTTF

> RXA02741 (1-966, translated) 322 residues

MKAILVSRGT GPEVLEFTDT DAPKPTDDQV LVEVDMAGVN FIDTYRQGE YHARLPFIPG
FEGTGRVLED PQGLIAAGTK VAWCDAMGSY AQQVCVPRDR LVAVPEGVSS EVAASMLMQG
ITAHYLTNGV YELEEGDSCL ITAGAGGVGL LATQMAAAKG VRVYSVSTD EKAELALDAG
AYEVFRYSDN LAEQVRRHNG GRGVDVVYDG VGQSTFNESL EAVRPRGTVC LFGAASGPVE

PFDPLLNTH GSIFLTRPSI GAWTSEEGER AKRAQAVTQA IVEGTLRVRV TGTYSLADAY
IAHRDLQARS TSGSLVLEIP KD

> RXA02743 (1-1038, translated) 346 residues
VSTSDAPSNN PVELKPITFW APTIKVQRIL ALLLLIFQGG ITVTGSIVRV TGSGLGCDTW
PLCHEGSLVP VAGAAPWIHQ AVEFGNRMLT FVLAAAALAL FIAVLGAKRR REILVHSFIQ
GLGIILQAVI GGITVLVDLH WYAVALHFLP SMILVFMAAI LYTRIGEPDD GEITTTFTPTW
IRNVAVIGAV ALSVVLITGT MTTGAGVHSG DASITMDDRL DVSIDLMAHI HGYSMYIYLF
FTLIVVAGLY KAKTTKHNKQ LGLMLILFIL IQAGIGILQY RMGVPRWSIP FHIAMSSVVV
AFTSLLWAQG RIRVGGKATV TGSVDGDIKN EIITNPFEEK SKQPVK

> RXA02797 (1-903, translated) 301 residues
MNNRIVVVGs INADLNLVD RHPAPGETLL GSGGHITAGG KGANQAVAAA LQGADVAFVG
AVGKDPYAAP ALEFLRSSGV DLTAVSEVDD TTGLAVITVA KDGENNIVVI PGANSLVNCD
YVSSQSALLA EAGILLQGE IPADGFKEAI HHTMGRVVVN LAPVIEVEKS ALLEADPIIA
NEHEAGLILD QFGAGIDSMD PHELAQALLD AGFASVVLTL GSAGALVADA TGITDIATPT
VQAVDTTGAG DAFAGAFCAR LIKGD SLIDA ATHAARVGAY SVQTAGAQAS YPDASVSLPS
V

> RXA02803 (1-399, translated) 133 residues
SGEMLAAALS AGMASQGV DV IRVGVIPTPA VAFLTDDYGA DMGVMISASH NMPDNGIKF
FSAGGHKLPD HVEDEIERVM DSLPAEGPTG HGVGRVIEEA TDAQDRYLEH LKEAVPTSLE
GIKIVVDAAN GAA

> RXA02807 (1-465, translated) 155 residues
MAHSYAEQLI DTLEAQGVKR IYGLVGDSL N PIVDAVRQSD IEWVHVRNEE AAFAAGAES
LITGELAVCA ASCGPGNTHL IQGLYDSHRN GAKVLAIA SH IPSAQIGSTF FQETHPEILF
KECSGYCEMV NGGEQGERIL HHAIQST MAG KGVSV

> RXA02821 (1-180, translated) 60 residues
VGYGIATIGP GLGIGILVGK ALEGMARQPE MAGQLRTTMF LGIAFVEALA LIGLVAGFLF

> RXA02829 (1-276, translated) 92 residues
MQKNILKSGI EISELGLGCM SLGTDYKKAQ PIIESAIDNG ITYFDTADIY DQGVNEEIVG
KALKKYQNRD DIVIGTKVGN RLTDGHTW GS

> RXA02852 (1-279, translated) 93 residues
VAVSDFSTDL PNQIREWVPG DYTVLGADGF GFS DTRPAAR RFFNIDAESI VVAVLNSLAR
EGKIDVSVAA QAAEFKLLD PTSVSVDPNA PEE

> RXA02853 (1-1407, translated) 469 residues
MAKRIVIIGG GPAGYEAALA GAKYGA ETV IEDVGVGGS A VTMDCVPSKS FIAGTGIKTD
LRRADDMGLN RGLGKAHLEI DALNIRVKDL AKAQSEDILG QLQRSDVRMI NGVGRFDDYN
TKQTTHYIKV THSDGSEETV ECDLVLVATG ATPRILKGAE PDGERILTW R QVYDIEELPT
HLIVVSGSVT GA EFSAF AE LGVKVTMVAS RDRILPHDDA DAADVLETVL AERGVSLK H
ARVESVTRTE DGGVCVRTAD GREIYGSHAL MTVGSIPNTA DLGLENIGVE LAPSGHIKVD
XVSRTNIPGV YAAGDCTDLF PLASVAAMQG RIAMYHALGE GVSPIRLKT V ATAVFTRPEI
AAVGITHAQV DSGEVSARVI VLPLATNPRA KMRS LRHGFV KLFCCRNSGL IIGVVVAPT
ASELILPIAV AVTNRLTVAD LADTFVYPS LSGSITEAAR QLVQHDDL G

> RXA02854 (1-1584, translated) 528 residues
MDESRLSFG TAGLRAPVGP ARHQMNV LQV TRTTAGVASW LAERAALNPV PHLVPEDETG
IGRALYPQDG PLRVVVG YDA RYGSHTFAAT TAEVFAGAGF EVTLLPTPSP TPLIPWLVNK
HGLDAGVQIT ASHNGAADNG YKVFLSNGRQ LYSELEPELE AHINAVEDPI RVPRVTVRPT
ADQLRRYVDE MVSLVTPDQA DLLRVN SERG NLRVVYTALH GVGGRAMANA FQFAGFPHTH
GVKAQQYPDP TFPTVAFPNP EEP SAI ELL ERAKEKNADI LFALDPDADR CAVGIRTADG
GHRMLSGDEV GTLLATRLVP EYSGEGPRPV VATTVVSSQL LGIIAEDKGW DYSETLTGFK
NLSRAADGLD GPLAFAYEEA VGTCPPVDV PDKDGISTAL FMASWAAELK AQGASLQQL
NELYRRYGYF ASSQIAV RVS SPRELVDHWI AHPQQELIGV SVTPHILPEK QGIALHGQVG

HVHIRAIGRV SGTEAKAKLY LEVGQASSHD EAAQLLHOLE DEVQSWLS

> RXA02872 (1-672, translated) 224 residues
AREAWRIFMS HWDLYAGTAT GYWVEQEFEH VFGINAERLN VGTPEHADAI FDELTDILAK
PDFRPRALAE QFNLEVLATT DDPLDDLADH KALADDPFES PRVLPTFRPD AYTKMYNAGW
AEKTTKLIDT AGDGKAGWEG YLQAMRNRRQ YFINHGATSA DHGLHDTDTT PLSHKDAQKI
LDKGLAGTAT LAEMHAFEAN TTYRFAEMSQ EDGLVMTIHP GVYR

> RXA02873 (1-510, translated) 170 residues
FGENKDLISD SSFNRWLRV SLGSTQDADM AAASNLAANS KMARQNTRDI LDAVSDGGVM
LGRNGALVLG PVVGTLHIKF IAPLNKRVER VMYKTGLSEA AAAEQCALED RLREEMAHAL
YQWNPGRDEN YDLVINTGSM TYEQIVDLVV ETYARKYPLH VRIIPNGKDQ

> RXA02887 (1-408, translated) 136 residues
MADQAKLGK PSDDSNFAMI RDGVASYLND SDPEETNEWM DSLDGLLQES SPERARYLML
RLLERASAKR VSLPPMTSTD YVNTIPTSM PEPFGDEEME KRYRRWIRWN AAIMVHRAQR
PGIGVGGHIS TYAGAA

> RXA02897 (1-1287, translated) 429 residues
DLDGFRQEVs REQGGIPSYP HPHGMKDFWE FPTVSMGLGP MDAIYQARFN RYLENRGIKD
TSDQHVAFL GDGEMDEPES RGLIQQAALN NLDNLTFFVN CNLQRLDGPV RGNTKIIQEL
ESFFRGAGWS VIKVWGREW DELLEKDQDG ALVEIMNNTS DGDYQTFKAN DGAYVREHFF
GRDPRTAKLV ENMTDEEIKW LPRGGHDYRK VYAAVKRALE TKDRPTVILA HTIKGYGLGH
NFEGRNATHQ MKKLTLDLKL LFRDKQGIPI TDEQLEKDPY LPPYYHPGED APEIKYMKER
RAALGGYLP RRENYDPIQV PPLDKLRSVR KGSGKQGIAT TMATVTRTFKE LMRDKGLADR
LVPIIPDEAR TFGLDWFPT LKIYNPHGQN YVPVDHDLML SYREAPGQI LHEGINEAGS
VASFIAAGT

> RXA02902 (1-672, translated) 224 residues
LASDLGIKFV AVVDKDLTA EKFBTGLGAA GDSSSESVKA HGSLPALFSK KKIDVLHITT
PHDQHIGLAL EALHHGVNVI LEKPLANELD QAQRLIDYLD ENPDGPKIAV CYQNRNVSS
QELRRLDSG DLGAINGAYS SVVWTRTPGY YQKPPWRGQQ AHSGGGLLMN QAIHTLDDLQ
WFLGKATEVK GTVSTDKYAD VIDVEDTAHA YIGHESGVHT SEVS

>RXN00013 TRANSLATE of: rxn00013.seq check: 4426 from: 1 to: 873
MEGMTNPEQTHPAASLEDMIKTITKTFVIAHQDSDEHLAQALVYNAGRLAWRMRENGVD
TDYKTSVSDVVTADRAAEAFVAGVLEALRPEDGVLGEEGADRASKSGKTWVIDPVDGTY
NFTQGSYWCALALVEGDPSAPSRVLFVAVHRPAMGYTWFGGPGIRTTLTGKELDLLVD
APLNQISLATYIHPRIAEPDIQKAWMSVATHPATLRMFGAGSIDLANIADGSMGAWVQH
SVADWDWLPGRALIEGVGGACIKVTAGGVEWSVAGNAEAVSEISETLSALD

>RXN00014 TRANSLATE of: rxn00014.seq check: 1159 from: 1 to: 780
MSKYADDLALALELADSLTDRFEASDLEVSSKPDMPVSDADLATEEALREKIATA
RPADSILGEEFGDVEFSGRQWIIDPIDGKTNVVRGVPVWATLIALLDNGKPVAGVISAP
ALARRWWASEGAGAWRTFNGSSPRKLSVSQVSKLDDASLSFSSLSGWAERDLRDQFVSLT
DTTWRLRGYDFFSYCLVAEGAVDIAAEPEVSLWDLAPLSILVTEAGGKFTSLAGVDGPH
GGDAVATNGILHDETLDRK

>RXN00043 TRANSLATE of: rxn00043.seq check: 5115 from: 1 to: 1164
MAEVVHYQENAGQAVKKIEGRIVTPHGVIDGFLQLENGIITELSGEPAPKNAGFHPPELPT
IVPSFIDLHNHGGNGGAFPTGTQDQARNAAQYHREHGTVM LASMVSAPADALAAQVENL
IPLCEEGLLCGIHLEGPFINACRCGAQNPDFIFPGNPTDLAQVIHAGKGWIKSITVAPET
DNLTLLDLCAAHIIASFHGTDAFDTTTTSAIALAKEKNVTVTATHLFNAMPPHHRDP
GSVGALLAAARAGDAYVELIADGVHLADGTVDLARSNNAFFITDAMEAAGMPDGEYILGV
LNVTVTDGVARLRDGGAIAGGTSTLASQVHHVRRGMTLIDATLHTSTVAAKILGLSDHE
IVKSNPVNFVVFDSNGQLQQVHLHQVI

>RXN00148 TRANSLATE of: rxn00148.seq check: 5482 from: 1 to: 2211
MTSIPNFSIDIPLTAETRAESHNVDAKGVWNTPEGIDVKRVFTQADRDEAQAAGHPVDSL
PGQKPFMRGPYPTMYTNQPWITRQYAGFSTAASNAFYRRNLAAGQKGLSVAFDLATHRG

YSDSDNERVVGVDGMAGVAIDSILDMRQLFDGIDLSSSVSMTMNGAVLPILAFYIVAAEE
QGVGPEQLAGTIQNDILKEFMVRNTYIYPPKPSMRIISNIFEYTSLKMPRFNSISISGYH
IQEAGATADLELAYTLADGIEYIRAGKEVGLDVKFAPRLSFFWGISMYTFMEIAKLKLAG
RLWSELVAKFDPKNAKSQSLRTHSQTSGWSLTAQDVYNNVARTAEAMAATQGHQTSLH
TNALDEALALPTDFSARIARNTQLLLQQESGTVRPVDPWAGSYVVEWLTNELANRARKHI
DEVEEAGGMAQATAQGI PKLRIEESAARTQARIDSGRQALIGVNRVVAEEDDEEIEVLKVD
NTKVRAEQLAKLAQLKAERNDAEVKAALDALTAARNEHKEPGDLQNLKLAVDAAARAK
ATIGEISDALEVVFRHEAEIRTLSGVYKDEVGKEGTVSNVERAIALADAFEAEEGRRPR
IFIAMKMGQDGHDRGQKVVASAYADLGMDVDVGPLFQTPAEARAADVDVHVVMSSSLAA
GHLTLLPELKKELAAALGRDDILVTVGGVIPPQDFQDLYDMGAAAIYPSGTVIAESAIDLI
TRLAAHLGFDLDVDVNE

>RXN00200 TRANSLATE of: rxn00200.seq check: 5263 from: 1 to: 3438
MRQVGNGGGHQLDSINVSDVVESKKLKGSAQEPQVAPGWLKKLAISSGLLGLLMFVLLP
FLPVNQVQSSLSWPQNGELSSVNAPLISYAPQSMASIPVSALDSLNDNQSLVMGTLPLD
STDATNRGLFVRTIDGNLDVIVRGEVLLDLSPTENVRLPDDAILEISSTEETTSAEITGT
AFSGETEGDERPQVTGVYTELVDDPSTASALASAGLNV DIEINSRFTSSPSLLKYAAIFI
GLASVLVSLWTLHRMDILDGRKAHRFLPANWYKLPDGVVAILVFWHFLGANTSDDGF
IMTMARVSQNADYMANYYRWFGVPESPFQAPYDDLALMAYISTSSIWLRLPALLAGLIM
WFWITREVMFRGSLVNGRRVAHWSAAMVFLAFWLPYNNGTREPIIAMGALLAWVSFER
AIATSRLLPAAIGVIIATISLASGPTGLMAVAALLVSLSALIRILYRRLPLIGASRGASK
SKVFGASMAMLAPFLASGTAILIAVFGDQTLSTVMESISVRSAGKPALTWYHEYVRYQTV
MEQTVDSGSTRFRAVLMLMACLAIVVIAILRYGRIPGAAGKPSLRLLMMVIFGTMFFMMFT
PTKWTTHFGVYAGLAGALAGLAAGVLSYVAVKSPRMTISIGAFLLALALAGVNGFWY
TSSYAVPWWDKTIQIKGIEASTVVLVIAVIVLIIGVQSFVHDVKTAQAETNHSMGELVA
EDEAKRERASRFTGLAASPIAGVSALVVLITCASMKGKGFVDQYPAYSVGLGNLRSLTGNT
CGLASDAMLETNSNDSFLTVPVNSTLGESLESEDIRGFSAGIPPSISQDQADLSAVGAIA
NTDDSTETGGSDSSGQSTGNTGGVVRGSEGINSNARLPFNLDYTQVPVVGWSAGTQNP
ANITTDWYEIPEATEEAPIIVVSAAGRIEHYDINGVRQSGQSVMLEYGRLRDNGDVEDLG
EAMMYDIGPEPSWRNLRYPLDQLPEEADVVRIVATDVNLDEDQWVALTPPRVNLDSLNN
VIGSETPGLLDWAVGLQFPCQRTFDHYAGVTEIPEYRISPDHGGKSTLSPFQDWAGGSGM
GTAEAVNNAYEIPSYLRNDWGRDWGSIERYSLRTNSNGDAPKQVADINLETIQRSGLWNPG
HMKVDE

>RXN00231 TRANSLATE of: rxn00231.seq check: 1223 from: 1 to: 1470
MTINVFELLVKSPTGLLIGDSWVEASDGGTFDVENPATGETIATLASATSEDALAALDAA
CAVQAEWARMPARERSNILRRGFELVAERAEFEATLMTLEMKGKPLAEARGEVTYGNFLR
WFSEEAVRLYGRYGTTPEGNLRMLTALKPVGPCLLITPWNFPLAMATRKVAPAIAGCVM
VLKPARLTPLTSQYFAQTMLDAGLPAGVLNVVSGASASAINPIMEDDRLRKVSFTGSTP
VGQQLLKAADKVLRTSMELGGNAPFIVFEDADLDLAEIGAMGAKMRNIGEACTAANRFL
VHESVADEFGRRALEEQVLGNGLDEGVTVGPLVEEKARDSVASLVDAVAEGATVLT
GGKAGTGAGYFYEPTVLTGVSTDAAILNEEIFGPVAPIVTFQTEEEALRLANSTEYGLAS
YVFTQDTSRIFRVS DGLEFGLVGVNSGVISNAAAPFGGVKQSGMGREGGLEGIEEYTSVQ
YIGIRDPYAG

>RXN00296 TRANSLATE of: rxn00296.seq check: 2905 from: 1 to: 2844
MHTTIKFNRLDPEVFSQHSRAKLRTDMTTAAAYSSDAGIFRRVPAVAEPENVEQIRDAI
AVAVARGWSVVGRRGGSSVAGNAIGELIIDTSRYFNRI LDIDPVAQTAVVEPGVVC DAL
RDAAAEFGLTYGPDPSHRSCTIGGMVANNACGSHSVAFGTAAENLVDVTLMLSDGREVT
VTKDGCDDAEINQKLTDLASKNQDLISKELGRFPQVSGYGLHYLAHDMAKAMAGTEGTI
GIITRLTVKLVPTPKVKALAVLAFDVTVFDAARAAAKLRLPGVATIEGMGGDLLAALRSKQ
GQSEAGQNLPGNRIGIEAGGWLYCETGSDTLQAAVQAAEEVATAVDITIDYVVVSEPMR
ELWRIRESSAGIVTRLADGGEAWPNWEDSAVPPENLADYLRDLYALMDKFDYQGI PF GHF
GEGCVHVRISFDFSTKEGLKKFEAFMNEASTLVASYGGSLSGEHGDGRARSSFLDRMYSA
EMRALFEFELKLI FDPQRI FNPGLVWADPVMQGLRMDPGQRALDITPVHKFSKDKGSMIN
AVNRCVGSVACRSES DAMCPSFQITGDEVHSTRGRARLLSEMFRGESIADGYRSEEVNEA
LDLCLSCACASECPVNVDMSTYKAEFLDKHYAGRLRPMAHYVMGWLPLLGHVAHKIPLL
PTLIDATMQSALTAPVVRKVGGADRPLISFAHRSLRKYKPKKNSGETVVLWPD SFNTNL
DTGPAHAAIKTLEALGYNVIPDGFVCCGLTWHSTGQLSMTKKVLEQTAKVMKPYLDQGL
TVVGLPEPCTVMLQDEATELSDNPDLARLAALTKPFAEVIAPKITELVESGSLQLTESTA
LTQVHCHERSLGDPQQSALVLEALGVKDEQIATGCCGLAGNWGF EKDHAEMSFALGEREL

FPKVRKAEGHVIADGFSCRTQIEQGTGKQATHLAEVVLSILEQNNMAQ

>RXN00310 TRANSLATE of: rxn00310.seq check: 2380 from: 1 to: 435
MSDKIWKVGIIGCGAISRNHIEAVQAIPGAEVSAVCDVDGAKASETAAKYGISPSFTSVD
EILASGVDIVAVCTPHPTHETVVLAAAAAGVHVLCEKPIAIELDSAQRMIDACESAGVQL
GVLFQRRFWPAAQMKKEPSWANAR

>RXN00316 TRANSLATE of: rxn00316.seq check: 4820 from: 1 to: 1146
MGQCTVALYREHSYYTATPWRGTWAADGGGVLMQTQAIHYIDLWLLGEPVEVFGYTNSF
KHGDNIEVEDSAVATVRFESGALATISATTAEPALGAQVQVMGTGKATMTILEFPEGTD
GRLIVRSENDTRRNHPIPPRGSLSQCRSFHHQRCFDPVSHRPDRRLYRCAQRRPPTDHR
PRCHQSSSESPWCLRISSHPAGLFDLTEAFKTSRQIGLAPLSSLSTPPDQLVRLAAATG
FSFVGLRVIAVTPNERVYDLSPGSPLLAATQQALKETALYVLDTEFLQVNADTTREAWLP
ALEAAGALGAKFTTIAAGDDNIAPLTDITIGAMVDDARDFGVTTPALEPISYRSVHSIPQAA
AIARDSGGKVVDATLHMARFGA

>RXN00317 TRANSLATE of: rxn00317.seq check: 4403 from: 1 to: 654
VTTPSKKTLLFDLDGTLVDSFPGIRTSFLHTLHEKNWEIPSEERISQVPGPPMEWTFQDL
GMTPEQAQDALQTYLEHYGVGWDLSEAFPGMRDLLIRLKYEGFRLCTATSKGEFFAEKV
LRKFEMFDLFEFMGAATDSGNRRSKSAVIKHVLDVGLDEPNIDILMIGDRSHDIEGSSEF
GIDCVAVTWGYGSKTEWDAARYTVSTAEELERIIHDWA

>RXN00337 TRANSLATE of: rxn00337.seq check: 9748 from: 1 to: 1050
MLLTYAFVDVEGGVEKHSLSSTADIAARAHAMKSHDVLGRQTTPPQPEGGAARLGGLIAW
TMIHKQMLSRDTKGLDITVLSTIPEGVGLGENSAMVALALALYRENIEEAPTARIAEI
CSQSASFMFSETSVLRARHTVALRGETGQISVVDYADGSVTQAPHPVSRAGLSAFVVAQ
TETDPSIYREIYARHAFIDEAARAFSVESLRLPDASTRVVDWLQAVIEVTGREDLPSIE
QAQRWNLNLENETRAQTANALRSRRLSEFSELLMESQDDLSDTFDFPPADLALARLCV
ERGATAARSTARGVIALVDAHHAHNFAADLSEDGLLVVPLGHGDVAEQG

>RXN00387 TRANSLATE of: rxn00387.seq check: 3252 from: 1 to: 855
MFRSNISYAVGDDIQNDPETWEDYELRVNHPLRIEGDRVYLQGHGFAPTFTVTWPNGETR
TQTVQWRPDDPTFFLSSGVVRFDPAGMYPDLYERRQNQLAIQGLFAPTAEWEGDNNELL
TSSYPAMRDPVAVIDIYRGDNGLDGTGIGQSLFSLDSSLMHSGVLQKIERVNLQIGDVTTL
DDGTTVSFDGASEFANYQISRDPTQNWVLVTTVISLVSLSVLSLMIRRRRIWVRFYPQENG
TTRVETGGLARTDRAGWGGEYEKHFHRELLGLKEEDEDEEYFDHDD

>RXN00388 TRANSLATE of: rxn00388.seq check: 9749 from: 1 to: 1011
MLPVNQTYAQFSDTAFVSAYIIYVLALILSLVYYVKQQGIIDARREQTRVSELVGAGGSA
DVDTDLPDIADGLVLADEDLAKREETARKLANMTQSLMWLGVMVHLVSVMRALSASRFP
FGNLIEYILMADTLFAMIGAVLILQRPQFRVVPWILTPMLALLFYGGTQLYSDAAPVPPA
LQSFWFPIHVSSVSIGASIGIVSGIASLLYILRMWQPKGKEKGFFGAVAKPLPSGKTLDN
LAYKTAIWTVPFIFGLGIIIGAIWAEAAWGRFWGWDPKETVVSFITWVLYAGYLHARATAGW
RNTNAAWINILALVTMIFNLFFINMVVSGLHSHYAGLN

>RXN00389 TRANSLATE of: rxn00389.seq check: 9029 from: 1 to: 1560
MITATALHGCSLIDGEWVAGKNGEITGDFPRTNASLNPSYSLANSACLRAATTSKRAFE
SYRLTTPPEVRADFLDSIADNIDALSGEIVQASLETGLGTTRLTGEVARTSNQLRLFAET
VRSGQFHRVRIERGPRIDLQRQVPLGPVAVFGASNFPVAFSTAGGDTASALAAGCPVVF
KAHNAHPGTAEVLVGAVRGAVEKHEFDAGVFNLYVGRGVEIGQELAADPNITAIGFTGSR
QGGLALSQTAFSRPVPVPVFAEMSATNPVVFPGALADLDASSSLAEFTASVTGSSGQL
CTKPGLVFIPRGVVGDAFVALVAAKFKETTGQTMLTQGIAQAWQRGVDNLAAQPSVKILA
QGTGPDGENAPGPVVFESDVQALLNNVVLQEEIFGAASLVVRYDSPQLHQVANSLEGQL
TATIHASQDDFQEVSKLIPLLEDLAGRVLYGGWPTGVEVGHTVIHGGPYPATSNQSTSV
GTLAIERFMRPVSYQTFPAELLDPVSEANKWAVPREIDR

>RXN00401 TRANSLATE of: rxn00401.seq check: 9893 from: 1 to: 939
MARFSPQDLADHLKDGLLSFPATAFQDDLEVDAAAYVEHIEWQSSYPVAGLFAAGGTGEG
FSLTVEENHRVTQLAVQASSPEVPVLGSATGSKSAIANAQAAGAEAGVLLLPPLYLTE
CDAEGLYNHAAVCESTSLGVIVYNRANAIYSPEVIARLSERYPNFIGFKDGTGNIEHLA
KITTLGCDRLFYLGLLPTAETFALPLLQMGMSYSSAMFNFIPIPDFALSFYADVRAQDSAA

VKQKLSDFVLPYLDIRDRAGGYGVSIGKGLKAVGRNAGGVRPPLRNLSEQDIADLSDLL
ATSGAGSYRLQLR

>RXN00427 TRANSLATE of: rxn00427.seq check: 2014 from: 1 to: 786
MGRILVFYSVTLEVAGDRPVYTPSRTNLGDGGGFAFGFLTALALGANAVWCTDDDGRRPEG
PGVLKTLIDAASRNLEEVSPVVCNADDPERLAFPLRRGLEWRRMRSELIDPANPEDDLL
PGIASLFNGALISAYAMERIGVPDYRLFIRGDEVEYHRRLVRSGLPFGTCLTTAYLHPDG
SDEFKPILGGRMHTQYPDNDFKRFFTYRNRGYLMSQPGMRKLLPQEYARFAWFFLVQKRD
VKGFREWLRLHKLGRDEKFNRP

>RXN00483 TRANSLATE of: rxn00483.seq check: 5018 from: 1 to: 1464
VLVTGATGYIGGRLITELLAAGFQVRATSRKKTSLQRFWDYEDVEAVEADLTDATELDTL
FKDVDVYYLHVSMGGKNVDFEEQEORTAENVIAADQAGIKQIVYLSGLHPRNRKIEEL
SKHMRSEKVAQILLAGQTPALILRAATIIGSGSASFEEIRHLTERLPRMIAPQWITNQI
EPLAIRDVLHYLISAADLKDPVNRSCDIGCGKSYEFADLLRIYADVRGLKRHVNSVPLNL
PMDKLSGLWISLVTVPVQFQSLFPLAQSMADAVTEEHSIKDIISDPDGFIEYREAVELA
LAAEFDRGVPTSWDRSWTVQPPWAGQPTDPEWAGKAVYEDVRTEDTLRAAQVWPIIEGL
GGVNGWYSAPLLWRLRGIADRLIGGPGGRRDPRHLKLGDRI DWVRVTEIDPPHRLVLT
AEMKVDGGAWLILEVADKENGCTYTQRAIFEPKGLPGYLYWWVVS PFHAIIFPYMRSNI
LKAARKLT

>RXN00519 TRANSLATE of: rxn00519.seq check: 5871 from: 1 to: 2214
MAKIIWTRTDEAPLLATYSLKPVEAFAATAGIEVETRDISLAGRILAQFPERLTEDQKV
GNALAELEGELAKTPEANI IKLPNISASVPQLKAAIKELQDQGYDIPELPDNATTDEEKDI
LARYNAVKGSAVNPVLREGNSDRRAPIAVKNFVKKFPHRMGEWSADSKTNVATMDANDFR
HNEKSIILDAADDEVQIKHIAADGTETILKDSLKLLEGEVLDGTVLSAKALDAFLLEQVAR
AKAEGILFSAHLKATMMKVSDPIIFGHVVRAYFADVFAQYGEQLLAAGLNGENGLAAILS
GLESLDNGEEIKAAFEKGLEDPDLAMVNSARGITNLHVPSDVIVDASMPAMIRTSGHMW
NKDDQEQDTLAIIPDSSYAGVYQTVIEDCRKNGAFDPTTGMGTVPNVGLMAQKAEYEGSHD
KTFRIEADGVVQVSSNGDVLI EHDVEANDIWRACQVKDAPIQDWVKLAVTRSRLSGMPA
VFWLDPERAHDRNLASLVEKYLADHDTEGLDIQILSPVEATQLSIDRIRRGEDTISVTGN
VLRDYNITDLFPILELGTSAKMLSVVPLMAGGGLFETGAGGSAPKHVQQVQEEHNHRLDSL
GEFLALAESFRHELNNNGNTKAGVLADALDKATEKLLNEEKSPSRKVGEIDNRGSHFWLT
KFWADELAAQTEDADLAATFAPVAEALNTGAADIDAALLAVQGGATDLGGYYSPNEEKLT
NIMRPVAQFNEIVDALKK

>RXN00528 TRANSLATE of: rxn00528.seq check: 9827 from: 1 to: 1089
MSTSTIRVAIAGVGNCATSLIQGVEYYRNADPSETVPLMHVKFGDYHVGDI EFVAAFDV
DAEKVGIDLADATEASQNTIKIADVPOQTGINVLRGPTLDGLGDHYRATIDESTAE PVDV
VQALIDAKADVLVSYPVGSEADKFYAQAADAGCAFNALPVFIASDPEWAKKFTDAG
IPIVGDDIKSQIGATITHRVLARLFEERGVRVDRMTQMLNVGGNMDFKNMLDRNRLESKKV
SKTQAVTSNIPDGPLSGKVEDRNVHIGPSDHVQWLDDRWAYVRLEGTA FGGVPLNLEYK
LEVWDS PNASAGIIIDAVRAAKIALDRGIGGPIMPASSYLMKSPPEQLPDDVACERLEAFI
IEA

>RXN00595 TRANSLATE of: rxn00595.seq check: 7949 from: 1 to: 1530
MAMDVLLPIFVAVPLAASAI AVLPLPWLRLIRDILHIIVPFAGIFAGIWLFAHTAEHGPIAH
NVGLYVGGVAIPFAADTFSAIMLITTSIVAVANWFATIVGETRARFYPA LTLMLITGVN
GALLTADLFNFFVFI EVMLLP SYGLIAMTGTWARLASGRIFVLVNLSASTLLVAGVGIVY
GVIGSVNIAALQDVVEGNPLVASAMGIVVIAIAVKAGVFPVHTWLPRTYPGTSAAVMGLF
SGLHTKVAVYMLYRIWVHIFNMDPTWNWLIVAFMVISMLVGGFAGLAENSIRRVLAYQMV
NGMPFILIMMAFTSDDPQRALAAGLLYTLHHMITIAALVLTSGAIEETYGTGMLS KLSGL
ARREPVA AVFAAGAFSVVGFPFSGMWGKALILLEIARVGNIAAWIAIAAIIIASLGAL
LSMIRVWREVFWGGAMHQRGVSPQLRISPAKIAPALSLIILSVGMFIFAGPLIDATLTAT
DGLLNTDAYQQAVLGENAIGVPSPSYQGGN

>RXN00606 TRANSLATE of: rxn00606.seq check: 8402 from: 1 to: 2274
VLTGVIAVLIAMSAFTKSAQFPFHFWLPEAMAAATPVSAFLHAAAVVKAGIYLLLRFSIV
FHDVAVWNWLLIIVGMGTAIMSAYFAVQKTDLKKLTAYSTVSHLGWIVATIGVGT PPFALG
AAIVHTLSHALFKSSLFMLIGVIDHQTGTRDIRRLGFLVKKMPFTFVSVLIGALSMASVP

PLLGFSKEGMITAFMDAPIGNSYVVLVLLVGAAGAVLTFTYSAKLVLGAFVDGPRDMSH
VKEAPVSLWLPAALPGLMSLPLVLVLSLFDAPVSAATSAAGEAAHMLALWHGINTPLL
ISLGLVLVAGILGVLFRKELWKIAETSPFPFIATGNDILSMLVYRANLLGKFFGRMADSMSP
RRHLVSLIVLLWALAAFIHPSVQLAPKQPGIDRWIDLIPLAIIALSVFGLLTTRNRLS
AAVLVGTGVGVVSFQMLLLGAPDVALTQFLVEGLVVVIIMMVVRHQPANFKRIKPSRRRS
TVLVAVLAAFAAFMAVWGLLGRHERSELAMWYLNQGPEITSGANVVNTILVEFRALDTLG
ELSVLGMAAVVIGAMVASMPRHPFAKGTHPRPFGQSQLNSIPLRMLLKVLVPALCFLSFM
VFMRGHNDPGGGFIAALIAGGALMLLYLSKAKDGRIFRPNVPFILTGAGILMAVFSGVLG
LTHGSFLYAIHFNFVQGHWTTSMIFDLGVYLAVLGMVSMANGLGGYLRPGTDNADLDYA
RRSGPLPATPTVEPEPEGEDDWPEPINPAGDNKEEANR

>RXN00635 TRANSLATE of: rxn00635.seq check: 3133 from: 1 to: 1737
MAHSYAEQLIDTLEAQGVKRIYGLVGDSLNPVIDAVRQSDIEWVHRNEEAAFAAGAES
LITGELAVCAASCGPGNTHLIQGLYDSHRNGAKVLAIASHIPSAQIGSTFFQETHPEILF
KECSGYCEMVNGGEQGERILHHAIQSTMAGKGVSVVVIIPGDIKEDAGDGTYSNSTISSG
TPVVFDPDTEAAALVEAINNAKSVTLFCGAGVKNARAQVLELAEKIKSPIGHALGGKQYI
QHNPFEVGMSSGLLGACVDASNEADLLILLGTDFFPYSDFLPKDNVAQVDINGAHIGRR
TTVKYPVTGDVAATIENILPHVKEKTDERSFLDRMLKAHERKLSSSVETYTHNVEKHVPIH
PEYVASILNELADKDAVFTVDTGMCNVWHARYIENPEGTRDFVGSFRHGTMANALPHAIG
AQSVDNRNRQVIAMCGDGGGLGMLLGELLTVKLHQLPLKAVVFNNSSLGMVKLEMLVEGQPE
FGTDHEEVNFAEIAAAAGIKSVRITDPKKVREQLAEALAYPGPVLIDIVTDPNALSIPPT
ITWEQVMGFSKAATRTVFGGGVGAMIDLARSNIRNIPTP

>RXN00684 TRANSLATE of: rxn00684.seq check: 631 from: 1 to: 1284
MTSQTQQSTSTGGCPFGHTSESTSHHGYPFDMHNPFPAYKELRQEEPVMFDERIGYWV
VTKYDDIKTTFFDDWETFSSENAQAPVRKRGPQATQIMTDGGFTAYSGLSARIPPEHTRIR
AIAQKAFTPRRYKALEPDIRAMVIDRVEKMLANDQHVGDMSVDLAYDIPTITILTIGAD
IFMVVITYKRWSDSRAAMTWGDLSDDEEQIPHAHNLEVEYWQECQRMVADAHAGGDNLTADL
VRAQQEGQEITDHEIASLLYSLLFAGHETTTTLISNCFRVLLDHPEQWQAILENPKLIPA
AVDEVLYRSGSIVGWRRKALKDTEIGGVAIKEGDGVLLMGSANRDEARFENGEEFDISR
ANAREHLSFGFGIHYCLGNMLAKLOAKICLEEVTRLVPSLHLVADKAIGFRENLSFRVPT
SVPVTWNA

>RXN00705 TRANSLATE of: rxn00705.seq check: 1372 from: 1 to: 915
MGRITQNLQVPRVSTDEQVFVNTRPDTVAVEEPLERVNGTALTMTMRTPGHDIELVHG
LLLSEGLITDASEVFTARYCAGAVGPDNQNTYNVLELDVIPKDNPARDPVQNPSHNPEGS
QHEALHIPTFQPVRELNLVAAQRNVLTTSACGVCCTTSIEQLMNKKGWPTITPTDPRMI
VSLPDKLKSKQKIFDKTGGVHAAGLATLDGEMLIREDVGRHNAADKVIGNMLMAGKLPL
ENTILVMSSRASFEVLVQKAAMAGISGVIAVGAATSLAIEAAQDSGIFLAGFVRGNKFNHY
AGELG

>RXN00799 TRANSLATE of: rxn00799.seq check: 3114 from: 1 to: 1644
MSQERPQIGSRLSRVIEQDGLQFRDLGDGVLAPYEDWRLTPAERAADLVKRMNVEEKAG
LMIIGSHYPGYSPLAPESEGKDAEKCEPLLNPDVMWREDNPITGVPTFEPVLATSSSTENA
INLRNQRYLIVRDNLPARGLATWTNAVQEAERSRLGIPVAFASNPRNHVALVAQFGVNE
SAGVFSEWPGELGLAALRDAELMETFGTEAAKEWRAGGVHKLGYMADLASEPRWSRFNG
TFGEDPELISDYIAAVVRGLQGPELSKNSVSTTIKHFPGGGVRLDGHDPHFHWGQTNEY
TEDALGKYHLPFFQAAIDAGCASIMPYYARPMNNSANQLDQQLWQNPTTQFEVAFAYNR
TFIQDLLRDAMGHRGYVNSDSGVIDAMMWGVEELSEPERFAAAVRAGTDIFSDMANPRRL
LEAVAEGHLESELNQPVQRLLEEIFQLGLFENPYVSEDEAEKIIGAPEVSALGNKAQLD
SVTLRRNPNIRAATGSCSKPEDLPYGYWQYQDRRGSTTAGSSHSRRTPRGNLGVFRVRSR
SCNRVGSP

>RXN00868 TRANSLATE of: rxn00868.seq check: 5375 from: 1 to: 1911
MAETKRMTVSQALVEFLGHQWTVGDGDIRERTIPGMFGIFGHGNVAGIGQALKQYNVEQPE
LMPYYQARNEQAMVHQSVMGYARMHRRRGTYASAASVGPATNLLTGAALATTNRLPALL
PSDTFATRVADPVLQQLQEPWDIGLTVNDAFRPVSKFFDRVQRPEQLFSIALAAMRVLTD
PAETGAVTIALPEDVQAEMLDVPVEFLQDREWHIRPRPERAALARAIEVIKNAKNPMII
AGGGVLYSDAETQLQALVEQTGIPVGTSGAGGGVLAWDHAQNLLGGVGATGTLANRIAGD
ADVIIIGIGTRYSDFTTASRTAFQNPVDVTFININVASFDAYKHGTQLPVIADAREAIVELA
EALQGFTVAEDYAQRIAKEKAAWDAEVDKSFAPSGLALPGQPEIIGAVQASTSEKDVIVQ

AAGSLPGDLHLKLRVRDALGYHVEYAFSCMGYEIAGGIGAKRGLDAAGDDRDVIMVGDG
SYLMLNTELVTAVAEGIKVIVVLIQNHGYASIGHLSETVGSQRFGTWYREYDAEAKNFQG
EQILPVDLAMNARSYGMVDVIEVEPSANAIEDLKAAMATAKASEKSTFIHINSPLIYAPD
GAGWWDVPVSETSTLDSTNAAREDYLNQALQRPLLG

>RXN00871 TRANSLATE of: rxn00871.seq check: 1232 from: 1 to: 888
MRWFHKKGELARDGWQSVVDATTPGWEYTGIRIAELGSGESLELNDTGVERIFIPLQGSF
DVAHHGQVTHLHGRKSVFDGPTDVLYLPTGQTATLSGQGRVAVAEAPTQEPKEWKYIAPA
ETPVELRGAGRSSRQVHNFGTPEALDAARLIVCEVITPGENWSSYPHKKHDEHIPGHESK
LEEIYYFESAPSRVGGRAEAAEGAFGMFSTYSSPAGEIDINAMVYSGDIALVPFGYHGPA
VAAPGYDLYLNVLMAGPDPERIWLINDDPAHAWVRDWTGQAFDDRLPYENANKEG

>RXN00872 TRANSLATE of: rxn00872.seq check: 2930 from: 1 to: 954
MTNLTSTHEVLAIGRLGVDIYPLQSGVGLADVQSFGKYLGGSAANVSVAARHGHNSALL
SRVGNDFGEYLLAELERLGVNDQYVATDQTFKTPVTFCEIFPPDDFPLYFYREPKAPDL
NIESADVSLDDVREADILWFTLTGTFSEEPSRGTHREILTTRANRRHTIFDLDIRPMFWES
PEEATKQAEWALQHSTVAVGNKEECEIAVGETEPERAGRALLERGVELAIVKQGPKGVMA
MTKDETVEVPPFFVDVINGLGAGDAFGGALCHGLLSEWPLEKVLRFANTAGALVASRLEC
STAMPTTDEVEASLNQKV

>RXN00879 TRANSLATE of: rxn00879.seq check: 6977 from: 1 to: 2118
VTARRFLNELADLYGVATSYTDYKGAHIEVSDDTLVKILRALGVNLDTSNLPNDDAIQRQ
IALFHDREFTRPLPPSVVAVEGDELVPFVHVHDGSPADVHIELEDGTQRDVSQVENWTAP
REIDGIRWGEASFKIPGDLPLGWHKLHLKSNERSAECGLIITPARLSTADKYLDSPRSGV
MAQIYSVRSTLSWGMGDFNDLGNLASVVAQDGADFLINPMHAAEPLPPTEDSPYLPPTTR
RFINPIYIRVEDIPEFNQLEIDLRDDIAEMAAEFRENRNLTSDIIERNDVYAAKLQVLRAI
FEMPRSSEREANFVSFVQREGQGLIDFATWCADRETAQSESVHGTEPDRDELTMFYMWLQ
WLCDEQLAAAQKRAVDAGMSIGIMADLAVGVHPPGADAQNLSHVLAPDASVGAPPDGYNQ
QGQDWSQPPWHFVRLAEEGYIPWRNLLRTVLRHSGGIRVDHVLGLFRLFVMPRMQSPATG
TYIRFDHNALVGILALELAGAVVIGEDLGTFFPWQDALAQRGIMGTSILWFEHSPSQ
PGPRRQEEYRPLALTVTTHDLPTAGYLEGEHIALRERLGVNLNDPAELAEDLQWQAE
ILDVAASANALPAREYVGLERDQRGELAELEGLHTFVAKTPSALTVCVCLVDMVGKRAQ
NQPGTTRDMPNWCIPLCDSEGNVSLIESLRENELYHRVAKASKRD

>RXN00999 TRANSLATE of: rxn00999.seq check: 9801 from: 1 to: 1452
MTNGDNLAQIGVVGLAVMGSNLARNFARNGNTVAVYNRSTDKTDKLIADHGSEGNFIPSA
TVEEFVASLEKPRRAIIMVQAGNATDAVINQLADAMDEGDIIIDGGNALYTDITIRREKEI
SARGHLFVGAGISGGEAGLNGPSIMPGGPAKSYESLGPLLESIAANVDGTPCVTHIGPD
GAGHFVKMVHNGIEYADMVIGEAYHLLRYAAGMQPAEIAEVFKEWNAGDLDSYLIEITA
EVLSQVDAETGKPLIDVIDAAGQKGTGRWTVKAALDLGIATTGIGEAVFARALSGATSQ
RAAAQGNLPAGVLTDLAALGVDKAQFVEDVRRALYASKLVAYAQQGFDEIKAGSDENNWDV
DPRDLATIWRGGCIIRAKFLNRIVEAYDANAEELESLLLDPYFKSELGDLIDSWRRVIVTA
TQLGLPIPVFASSLSYYDSLRAERLPAALIQGQRDFFGAHTYKRIDKDGSFHTEWSGDRS
EVEA

>RXN01025 TRANSLATE of: rxn01025.seq check: 6040 from: 1 to: 996
VVSVSVMGAGSWGTTAKVFS DAGNAVTLWARREELASTIRDSHENRDYLPGITLPESLQ
VTSSATEALEGAAIVVLAIPSQALRGNALEWKETIPQDATLVSLAKGIEKGTGLRMSEVI
AEVTEADPSRIAVLSGPNLAREIAEGQPAATVIACPDENRAKLVQAABAAPYFRPYTNTD
VVGTEIGGACKNVIALACGISHG YGLGENTNASLITRGLAEIARLGATLGADAKTFSGLA
GMGDLVATCSSLRNRSFGERLGQGESLEKAREATNGQVAEGVISSQSIFDLATKLGVE
MPITQAVYGVCHRDMKVTDMIVALMGRSKKAE

>RXN01048 TRANSLATE of: rxn01048.seq check: 6923 from: 1 to: 1224
MTIDLQRSTQNLTHEEIFEAEHGGKLSISSTRPLRDMRDL SLAYTPGVAQVCEAIKEDPE
VARTHTGIGNTVAVISDGTA VLGGLDIGPQASLPVMEGKAQLFSSFAGLKAIPIVLDVHD
VDALVETIAAIAPSF GAINLEDISAPRCFEVERRLIERLDIPVMHDDQHGTAVVILAALR
NSLKLDRKIEDLKIVISGAGAAGVAAVDMLTNAGATDIVVLDSRGIHDSREDLSPVKA
ALAEKTNPRGISGGINEAFTGADLFIGVSGGNIGEDALKLMAPEPILFTLANPTPEIDPE
LSQKYGAIVATGRSDLPNQINNVLAFPGIFAGALAAKAKKITPEMKLAAQRQSQTSQLRT
SRSAASCLPPWIPALPQQRQLSRPSPKRKTLKNLLIDASLPVEAPIF

>RXN01049 TRANSLATE of: rxn01049.seq check: 4562 from: 1 to: 1482
 MGS IPTMSIPFDDSRGPYVLAMDIGSTASRGGLYDASGCPKGTQKQRESHEFTTGEVST
 IDADQVVEITSVINGILNAADHNNIKDQIAAVALDSFASSLILVDGEGNALTPCITYAD
 SRSAQYVEQLRAEIDEKAYHGRTGVCLHTSYHPSRLLWLKTEFEKEFNKAKYVMTIGEYV
 YFKLAGITGMATSIAAWSGILDHTGELDLTILEHIGVDPALFGEIRNPDEPATDAKVVD
 KKWKHLEEIPWFHAI PDGWPSNIGPGAVDSKTVAVAAATSGAMRVILPSVPEQIPSGLWC
 YRVSRDQCIVGGALNDVGRAVTWLERTIIKPENLDEVLI REPLEGTPAVLPFFSGERSIG
 WAASAQATITNIQEQTGPEHLWRGVFEALALS YQVWEHMGKAGAAPERVIA SGRVSTDH
 PEFLAMLSDALDTPVIPLEMKRATLRGTALIVLEQLEPGGTRATPPFGTTHQPRFAHHYS
 KARELFDALY LKLV

>RXN01130 TRANSLATE of: rxn01130.seq check: 121 from: 1 to: 603
 MDLARKLGLLAGKLVDAA PVSIEVEARGELSS EQVNAI GLSAVRGLFSGII EESVTFVNA
 PRIAEERGLDISVKTNS ESVTHRSVLQVKVITGSGASATVVGALTGLERVEKITRINGRG
 LDLRAEGLNLFQYTDAPGALGTG TKLGAAGINIEAAALTQAEKGDGAVLILRVESAVS
 EELEAEINAELGATSFQVDLD

>RXN01143 TRANSLATE of: rxn01143.seq check: 3222 from: 1 to: 1119
 IPVVTTLMALGTFPESHELHMGMPGMHGT VSAVGALQRSDLLIAIGSRFDDRVTGDVDTF
 APDAKIIHADIDPAEIGKIKQVEVP IVGDAREVLARLLETTKASKAETEDI SEWVDYLKG
 LKARFPGRGYDEQPGDLLAPQFVIETLSKEVGPDAIYCAGVGQHQMWAQFVDFEKPRTWL
 NSGGLGTMGYAVPAALGAKAGAPDKEVW AIDGDGCFQMTNQELTTAAVEGFPIKIALINN
 GKPGAWTGWQTLFYEGRYSN TKLRNQGEYMPDFVTLSEGLGCVAIRVTKAEVLP AIQK
 AREINDRPVVIDFIVGEDAQVWPMVSAGSSNSDIQYALGLRPFFDGD E SAAEDPADIHEA
 VSDIDA AVESTEA

>RXN01144 TRANSLATE of: rxn01144.seq check: 6367 from: 1 to: 516
 MANS DVTRHILSVLVQD VDGII SRVSGMFTRRAFNLVFLVSAKTETHGINRITVVVDADE
 L NIEQITKQLNKLI PVLVKVVRLDEETT IARAIMLVKVSADSTNR PQIVDAANIFRARVVD
 VAPDSVVIESTGTPGKL RALLDVMEPFGIRELIQSGQIALNRGPKTMAPAKI

>RXN01146 TRANSLATE of: rxn01146.seq check: 6296 from: 1 to: 693
 MTGAKAIVRSLEELNADIVFGIPGGAVLPVYDPLY SSTKVRHVLVRHEQGAGHAATGYAQ
 VTGRVGVCIA TSGPGATNLVTPIADANLDSVPMVAITGQVGSGLLGTD AFQEADIRGITM
 PVTKHNFMTNPNDI PQALAEAFHLAITGRPGV LVDIPKDVQNAELDFVWPPKIDLPGY
 RPVSTPHARQIEQAVKLIGEAKKPVLYVGGGV IKADAHEELRAFAEYTGIP

>RXN01175 TRANSLATE of: rxn01175.seq check: 3032 from: 1 to: 1386
 VSWTVDIPKEVL PDLPLPEGMQQQFEDTISRDAKQQPTWDRAQAENVRKILESVPPIVV
 APEVLELKQKLADVANGKAFLLQGGDCAET FESNTEPHIRANVKTL LQMAVVLTYGASTP
 VIKMARIAGQYAKPRSSDL DGNGLPNYRGDIVNGVEATPEARRHDPARMIRAYANASAAM
 NLVRALTSSGTADLYRLSEWNREFVANS PAGARYEALAREIDSG LRFMEACGVSD E SLRA
 ADIYCSHEALLVDYERSMLRLATDEEGNEELYDLSAHQLWIGERTRGMDDFHVNFASMIS
 NPIG IKIGPGITPEEAVAYADKLDPNFEPGR LTI VARMGHDKVRSVLPGVIQAVEASGHK
 VIWQSDPMHGNTFTASNGYKTRHFDKVIDEVQGF FEVHRALGTHPGGIHIEFTGEDVTEC
 LGGAEDITD VDLPGRYESACDPRLNTQQSLELAFLVAEMLRN

>RXN01193 TRANSLATE of: rxn01193.seq check: 6139 from: 1 to: 1449
 MTTALEEQNAQQAATAGRVVRVIGAVVDVEFPRGELPALYNALTVEVTLESVKKT VVLEV
 AQHLGDNLIRTIAMAPTDGLVRGA AVTD TARPISVPVGDVVKGHVFNALGDCLDDVSLNN
 NPEIERWGIHREPPSFDQLEGKTEI LETGIKVIDLLTPYVKGKIGLFGGAGVGKTVLIQ
 EMITRIAREFSGTSVFAGVGERTREGTDLFLEMEEMGVLQDTALVFGQMDEPPGVGM RVA
 LSGLTMAEYFRDVQNQDVLLFIDNIFRFTQAGSEVSTLLGRMP SAVGYQPTLADEMGVLQ
 ERITSTKGRSITSLQAVYVPADDYTD PAPATTF AHL DATTELD RSIASKGIYPAVNPLTS
 TSRILEPAIVGERHYEVSQRVIGILQKNKELQDI IAILGMDELSEEDKITVARARRIERF
 LGQNFFVAEKFTGLPGSYVPLTDTVD AFERICNGDFDHYPEQAFNGLGGLDDVEAAYKKL
 TKG

>RXN01204 TRANSLATE of: rxn01204.seq check: 374 from: 1 to: 810
 MKGEFHAPDL DKEFFPGHVTD SGEVVNMLFTDFANGWFAMDRIVLIRLLMTAVVVVFFLW

AMRKPKLVPHGVQNFAYALDFVGIHIAEDILGKKKGRRFLPILATIFFAALLMNLATII
PGLNISSNSRIAFPIVMAVAGYIAFIYAGSKRYGFFKYVKSSVVI PNIPPALHVLVVP
FFSTFILRPVTLALRLMANFLAGHIIILVLLFSATNFFFFQFNGWTAMSGVTILMAVLFTV
YEIIVIFLQAYIFALLVAVYIELSLHADSH

>RXN01225 TRANSLATE of: rxn01225.seq check: 1629 from: 1 to: 1440
MTHNHKDWNDRIAVAEEMVPLIGRLHRNNNVVSVFGRLLVNVSDIDIKSHRYARHIIS
KELPLESSLDILRELVDMLGTASIDLGQLAYSFEESESTDLRAFLEDALAPVIGAETDI
NPTDIVLYGFGFRIGRLARILVSREALYD GARLRAIVVRKNGEEDLVKRASLLRDSVHG
GFDGTITTDYDNIIIWANGTPIKVIYSNDPATIDYTEYGINDAVVVDNTGRWRDREGLSQ
HLKSKGVAKVVLTA PGKGD LKNIVYGINHTDITADDQIVSAASCTTNAITPVLKVINDRY
GVEFGHVETVHSFTNDQNLIDNFHKGSRRGRAAGLNMVLTETGAAKAVSKALPELEGKLT
GNAIRVPTPDVSM AVLNLTLNTEVDRDEVNEFLRRVSLHSDLRQQIDWIRSPEVVSTDFV
GTHAGIVDGLATIATGRHLVLYVWYDNEFGYSNQVIRIVEEIIAGVRPRVYPERRQPAVL

>RXN01312 TRANSLATE of: rxn01312.seq check: 2455 from: 1 to: 2019
MSTHSETTRPEFIHPVSVLPEVSAGTVLDAAEPAGVPTKDMWEYQKDHMNLVSPLNRRKF
RVLVVG TGLSGGAAAAALGELGYDVKAFTYHDAPRRASIAAQGGVNSARGKKVDNDGAY
RHVKD TVKGGDYRGRESDCWRLAVESVRVIDHMAIGAPFAREYGGALATRSFGGVQVSR
TYYTRGQTGQQLQFSTASALQRQIHLGSVEIFTHNEMVDVIVTERNGEKRCEGLIMRNLI
TGELTAHTGHAVILATGGYGNVYHMSTLAKNSNASAIMRAYEAGAYFASPSFIQFHPTGL
PVNSTWQSKTILMSESLRNDGRIWSPKEPNDNRDPNTIPEDERDYFLERRYPAFGNLVPR
DVASRAISQQINAGLGVGPLNNAAYLDFRDLATERLGQDTIRERYSNLFTMYEEAIGEDPY
SSPMRIAPTCHFTMGGLWTD FNEMTSLPGLFCAGEASWYHGANRLGANSLLSASVDGWF
TLPFTIPNYLGPLLGSERLSEDAPEAQAAIARAQARIDRLMGNRPEWVGDNVHGPEYYHR
QLGDILYFSCGVS RNVEDLQDGINKIRALRDDFWKNMRITGSTDEMNOVLEYAARVADYI
DLGELMCVDALDRDESCGAHFRDDHLSEDGEAQRDDQNWCFVSAWEPGENGT FVCHAEPL
FFESVPLQTRNYK

>RXN01332 TRANSLATE of: rxn01332.seq check: 4448 from: 1 to: 576
HISAIIEPDAAAAAEDAPGAQAFTRIEDAIAADAVDAVLIAPVPGQFHEPVLVPALEA
GLPILCEKPLTPDSESSLRIVELEQKLDKPHIQVGFMRRFDP EYNNLRKLVESGEAGELL
MLRGLHRNPSVGSYTSMLITDSVVHEFDVIPWLAGSRVVSVEVKYPKTSSLAHSGLKE
PILVIMELENGV

>RXN01340 TRANSLATE of: rxn01340.seq check: 5971 from: 1 to: 858
KVGEIIASVFDTFNIPQGLVSIITTTTRDAELSAELMADPRLAKVTFTGSTNVGRILVRQS
ADRLLR TSMELGGNAAFVIDEAAADLDEAVSGAIAAKLRNAGQVCIAANRFLVHESRAAEF
TSKLATAMQNTPIGPVISARQDRIAALVDEAITDGARLIIGGEVPDGS GFFYPATILAD
VPAQSRIVHEEIFGPVATIIATFTDLAEGVAQANSTEFGLAAYGFSNNVKATQYMAEHLEA
GMVGINRGAISDPAAPFGGIGQSGFGREGGTEGIEEYLSVRYLALP

>RXN01365 TRANSLATE of: rxn01365.seq check: 6665 from: 1 to: 1374
MRTRESVTAVIKAYDVRGVVGVDDIDADFISETGAAGFRLMRSEGETTVAIGHDMRDSSPE
LAKAFADGVTAQGLDVVHLGLTSTDELYFASGTLKCAGAMFTASHNPAEYNGIKLCRAGA
RPVGQDSGLANI IDDLVEGVPAFDGESGSVSEQDLLSAYAEYLNELVDLKNIRPMKVAVD
AANGMG GFTVPEVFKGLPLDVAPLYFELDGNFPNHEANPLEPANLVDLQKFTVETGSDIG
LAFDGDADRCFVVDKGPVSPSAICAIVAERYLEKLPGSTIIHNLITSKAVPEVIAENG
GTAVRTRVGHFSFIKAKMAETGAAGFGEHSAHYFTEFFNADSGILAAMHVLAALGSQDQP
LSEMMARYNRYVASGELNSRLANAEAQQERTQAVLDAFADRTESVDTLDGVTVELKDTSA
WFNVRASNTPELLRLNVEAASKEEVDALVAEILGIIRA

>RXN01369 TRANSLATE of: rxn01369.seq check: 8434 from: 1 to: 1182
MELLEGLSLRTPWGSRTLIADLKGEESPSSRPEAEVWFGAHPGSPSTIGGNALNEVIAAN
PEEALGTRVAEAFENELPFLKILAAGAPLSLQAHPSLEQAREGFARENSAGIDLGA PNR
NYRDPNHKPELIVALTEFIAMAGFRPLRNTLTIFDALACEPLDRYRSM LTVDNEEESLRA
LFTTWITIPIGKRHELIDALISNAHTYLEASDRDEDIAFVLSHIIELENEQYPGDVGV LGA
LLNFYK LAPGEALYLDAA NLHAYISGLGVEIMANS DNVLRGGLTSKYVDVPELVRLDF
NSLENARVDVEEDGATTHYPVPINEFQLDRVAVQGEAEANHDGPMIVLCTSGTVSLEAGE
KTLEVAAGHAAWVPANDPTIAMRSEDAEVFLARV

>RXN01376 TRANSLATE of: rxn01376.seq check: 9104 from: 1 to: 861
 VTYS PGKYLASFLDSLPGATSRDTHVVMADNGSVDGVPEQAAASRSNVEFLSTGGNLGYG
 TAINIAARSLRARREAGEIDGFEFLVSNPDVVFDEDSIDQLECAKRHPEAGAVGPLIRE
 ADGSAYPSARAVPTLANGIGHALLGAVWKSNPWSAAYRDEDMDTERTAGWLSGSCLLLR
 WDAFDRVGGFDERYFMYMEDVDLGDRLVRAGFTNVFCPSAQIIHAKGHVAGKNPENMLPA
 HHESAYRFQADRLAKPWQAPIRLALRIGLKLKLRAGVAVGVSKMRTKAS

>RXN01406 TRANSLATE of: rxn01406.seq check: 5966 from: 1 to: 1023
 MTIRIGLVGYGVGGRLFHTPYIQASTHCELVGVVARSEGTKAAVAEDLPDVAIVGSLTEL
 LELGVDVAVISTPPATRRELALAINAGVAVVADKPFAPSADAMELVEAAEKAGVLLNV
 FHNRRNDTHIVTALGIQEELGAMRGLDLRLDLIEPDSLEAGPEGGLLRDLGSHVVDQTLV
 LMGPATSVTAQLGSIDLPEGPTNARFRIVLEHESGAVSHISASKIDRLESWEIRLVGERG
 SYVSNYTDVQTVAIKQGLRPTNDREHWGYESEERWGTFLVTDEGSKVIPSAQGDYTRFYDA
 FALAVENGGAGPVPAREGVAVLKVLDAVAQSAAEKRTIELS

>RXN01468 TRANSLATE of: rxn01468.seq check: 6994 from: 1 to: 825
 MTVNISYLTDMDGVLKEGEIIPGADRFLQSLTDNNVEFMVLTNNSIFTPRDLSARLKTS
 GLDIPPERIWT SATATAHFLKSQVKEGTAYVVGESGLTTALHTAGWILTDANPEFVVLGE
 TRTYSFEAITTAINLILGGARFICTNPDVTGSPSPGILPATGSVAALITAATGAEPYYIG
 KPNPVMRSALNTIGAHSEHTVMIGDRMDTDVKSGLLEAGLSTVLVRSGISDDAEIRRYPF
 RPTHVINSIADLADCWDDPFGDGAFHVPDEQQFTD

>RXN01498 TRANSLATE of: rxn01498.seq check: 692 from: 1 to: 1563
 MIKRLPLGPKELHQTLTDLTANAQDAKVEVIAPFTGETLGFGFDGDEQDVEHAFALS
 RAAQKKVWHTTAVERKKIFLKVHDLVLKNRELLMDIVQLETGKNRASADEVLDVAITTR
 FYANNAGKFLNDKKRPGALPIITKNTQQYVPGKVVGQITPWNYPPLTLGVSDAVPALLAGN
 AVVAKPDLATPFSCCLIMVHLLIEAGLPRDLMQVVTGPGDIVGGAIAAQCDFLMFTGSTAT
 GRILGRMTGERLVGFSaelGGKNPLIVAKDADLDKVEAEPLQACFSNSGQLCVSTERIYV
 EEDVYEEVIARFSKAAKAMSIGAGFEWKYEMGSLINHAQLDRVSTFVDQAKAAGATVLCG
 GKSRPDIGPFFYEPTVLADVPEGTPLLTEEVFGPVVFIEKVATLEEAVDKANGTPYGLNA
 SVFGSSETGNLVAGQLEAGGIGINDGYAATWASVSTPLGGMKQSGLGHRHGAEGITKYAE
 IRNIAEQRWMSMRGPAKMPRKVYSDTVATALKLGKIFKVLP

>RXN01550 TRANSLATE of: rxn01550.seq check: 138 from: 1 to: 1512
 VQLNDTHPVLAIPELMRLMDEHDMGWEESSWAIIVFKTFAYTNHTVLTEALEQWDQQIFQQ
 LEWRVWEIITEIDRRFRRLERAADGLDEETIDRMAPIQHGTVMMAWIAACYAAYSINGVAAL
 HTEIIKAETLADWYALWPEKFNNKTNGVTPRRWLRMINPGLSDLTRLSGSDDWVTDLDE
 LKKLRSYADDKSVLEELRAIKAANKQDFAEWILERQGIEIDPESIFDVQIKRLHEYKROL
 MNALYVLDLYFRIKEDGLTDIPARTVIFGAKAAPGYVRAKAIKLNINSIADLVNNDPEVS
 PLLKVVFFVENYNVSPAHLIPASDVSEQISTAGKEASGTSNMKFMNGALTTLGTMDSGANV
 EIVDSVGEENAYIFGARVEELPALRESYEPYELYETVPGLKRALDALDNGTLNDNNSGLF
 YDLKHSILHGYGKDASDTYYVLGDFADYRETRDRMAADYASDPLGWARMWINICESGRF
 SSDRTIRDYATEIWKLEPTPAVKK

>RXN01554 TRANSLATE of: rxn01554.seq check: 7857 from: 1 to: 2142
 LKKHVTSAVTAVVTAFASTAALGLSIAVSPAVAQVANPAPDLSAPYTWVEEFDSEDALKGW
 NIFRQPDYGSdkVLYTEDALSIEDGKLTITTQRHCVDDEFAISDPVNRGKLNDSSTAQVEP
 CAPGQFEKFTSARIVTPKIARGEFDLSVTATLNTGGVEGVRSIAIWMQNGEQACSSATNNG
 LYGELDLVEHFSYDLRSPWSPSNTHLGCDPESVNGTNRAPRELKLDSELDGVEHTWTVST
 TRDGVEYFIDDEAINRQSWRNDVTLGHAIEDDFGISAQTFDEIVDREWTLTLNQKVESAD
 WAKPRSSEEDFPVRSMVIDRIEVTGSPAVSEDTMPMDTTQLLTQDTLEYLGRMPVLERYE
 PASADFADGRRPSWNYFNLKESWQNPELEQRPEAVEFVDGRMDIVTRRHCLATTDIATP
 ENAQEPCAPGEVTRYSSARVHLPEIPAGNFRLTVRARAQSEELVDGVRPAIWMQNNTNF
 CADNDGRPYGELDITEFYSSRVNTQYSAVHLGCAGNRPEMKLRQMEMEESMFGDWDHWDGW
 EVFDGQIVFTIDGKAVTSSGKDVFGNSVTPAAAPLRPAHFKLSEEEYREVIGQPWHLILN
 TMVEQSGKDSWITAVDNNEAFPEHRFQIDHVAVDIESDSVDNVWPDAAANEIPDNVGIEDS
 DDGSDLEVGSSTGSSSTAETVSWISLFTALSSLVFTLALNQEALQNLINQFMRQFK

>RXN01562 TRANSLATE of: rxn01562.seq check: 4942 from: 1 to: 1908
 MGILNSISTPADLKALNDEDLDALAKEIRTFVLVDKVAATGGHLPNGLGVVELTIGLHRVF
 DSPQDPPIIFDTSHQSYVHKILTGRAKDFDSLQKDGSLGYTCRAESEHDWTESSHASAL
 SYADGLSKAKQLDGDTHSVVAVVGDGALTGGMCWEALNNIAAGKDRKVVVVVNDNGRSY
 SPTIGGFAENLAGLRMQPFYDRFMEKGKTSLSKSMGWVGERTFEALHAFKEGVKSTVIPT
 MFPELGMKYVGPVDGHNQKAVDNALKYAHDYDGPPIVHMVTEKGRGYAPAEQDLDELMS
 TGVIDPLTGAPKSASKPGWTSVFSDELVKIGAQNENNVVAITAAMAGPTGLSKFEANFPNR
 FFDVGIAEQHAVTSAAGLALGGKHPVVAIYSTFLNRAFDQLLMDVGMLNQPVTLVLDRSG
 VTGSDGASHNGVWDMALTSIVPGVQVAAPRDEDSLRELLNEAISIDGPTVVRFPKGDLP
 TPIVAIDTLEDGVDVLAYEDATDVESTDDAPSVLIIAVERATVALDVASRIKQHGVT
 VVDPRIWIPPIQSLVALSDDHDLVITIEDGVIHGGVGSLLSDALNASEVDTPRRQIAVPQ
 KYLDHASRNEVLADYGLDADGIEETTIVVGWLDLSLGE

>RXN01569 TRANSLATE of: rxn01569.seq check: 9598 from: 1 to: 1359
 MEYKGQLTSHTTIDIEGLLVDFPVHGDNRGWFKENWQRTKMTNLGLPDFGVPQNNMSFNA
 TAGTTRGMHAEPWDFVSVAVGVSFGAWVDLRAGSSTYGNVVTQKITPDVGVIYVPRGVAN
 GFQALEDGTLTYTLVNDHWSFDAHYANVNLNMIDWLPITEISEKDKKHPALIDATPLPA
 RKVLVVGAGGQLGTALRAQFPDAEFVTRQELDITSDLTEARAWKQYSTIINAAAYTAVDQ
 AEHDRAAWDINAAVANLATIARDNNLTIVHVSSDYVFDGAAESYDENAPFSPLGVYGO
 SKAAGDIGDTTAPRHYIVRTSWVIGDGNFVRTMKSLEDERGIAPSVVDDQIGRLSFTEDI
 AAGIAHLLEVGAAYGTYNLTNTGEPASWADVARAVFSDPTKVTGVSTAIEYFANKDAAPRP
 LNSVLDLGKIEATGFSAPTQWQTRLNDYKELSK

>RXN01580 TRANSLATE of: rxn01580.seq check: 9660 from: 1 to: 717
 MYKNMHIVAHARGAEDLHLENTMTAFQAAAPADAFELDIHATADNQVVIHDRTAARVAAP
 DSLHRDTPVARLSAAQIKEITLIDGSPVPTLEEVLQTSPLPIQVEIKSAGAVPAAAALLQ
 KYPEHLERLLFISFIDAALVEIVDRLEAPRVGILRDASMDLRLDYIPLKNVGAILPSW
 KALNVAISIADLHTKGIVGCWTIRDENAFGIAQQAGVDYATVSDPSRFLAPSPAGELHW

>RXN01593 TRANSLATE of: rxn01593.seq check: 9774 from: 1 to: 867
 MYVTNNASRAPEVVAQAQLREIGLADTTADNVMTSAQAACKMAAEKIPAGSKVYVLGSESF
 RELATEAGFVVVDSADDKPVAVLHGHNPETGWAQLSEAALSINAGAQYFASNLDSTLPM
 RGRHIGNGSMVAAVVNATGVKPLSAGKPGPAMFYAGAETLNSSKPLAVGDRLDTDIAGGN
 AAGMDTFQVLTGVSGYYDLVRAIPRAAPHLYRHLDAGSLQSRGQARCPGRFFSAYRRR
 HPGHFRRRCRRNSGCSTPHCVGCGLGGHRAVTEVRADSEVAATALQSWW

>RXN01630 TRANSLATE of: rxn01630.seq check: 5194 from: 1 to: 1077
 MSDQKIVVGLLGITHPHASARVRALREIDGVEVVAADTDSRLQYFTDKYDVEPREIDDV
 LNDDRINAIMVHSSKSKDMVPHAKRALAAGKSVVVEKPGGGTVADLEELLALKEAADPQRI
 VQVGYNVRLSESVQRLKELLDAGLIGEVVSVQARGAAKVGHEHTEHLNQPADMGVWLIL
 GCHMLDALVEVFGAPESVNARVHKTAKLSDDTSRSDSASALLYYPDFSVSFSFDGHDDLE
 WFESSRLTVYGTGKMIEAGILPQTLRVYLNESRQGWPGWTEWTQSYFTPPFARTESNKF
 SELPELENISNFRTEMQGWVNSIRTGSRNVAPVEDALTVARIVSACYESDNNQGISVNI

>RXN01631 TRANSLATE of: rxn01631.seq check: 4404 from: 1 to: 879
 MKPQLIASCWTSAGDAAPDRDDLSSPVAIDERIALVAETGWAGIGLVHADLIKARDTIGY
 EELRRRIHAAGIEIIIEVEFLNGWWATGAERQESDAVRADLFAAAQALGSPHIKVGAGEGT
 NGVVPPIAHMASAFTDLAAEAHGVKLALAEATPFSHLKTIYDALEVSHSDSPSAGLMVD
 IWH TAKIGIPNDELWRNIPLSKVNAVEVDDGFIDTPIDLFDDSTNRRAYCGEGEFDPASF
 IRGAIDAGWTGAYGVEIISAEHRSLPVKEGLQRAFDTTIAAFEQAARLAPSTN

>RXN01695 TRANSLATE of: rxn01695.seq check: 9144 from: 1 to: 1500
 MSDSPKNAPRITDEADVVLIGAGIMSSTLGAMLRQLEPSWTQIVFERLDGPAQESSSPWN
 NAGTGHSALCELNYTPEVKGKVEIAKAVGINEKFQVSRQFWSHLVEEGVLSDPKEFINPV
 PHVSFGQADQVAYIKARYEALKDHPFLFQGMTYADDEATFTEKLPLMAKGRDFSDPVAIS
 WIDEGTDINYGAQTKQYLDAAEVEGTEIRYGHEVKSADGAKWIVTVKNVHTGDTKTIK

ANFVFGAGGYALDLLRSAGIPQVKGFAGFPVSGLWLRCTNEELIEQHAACKVYGKASVGA
 PPMSPVHLDRVIEGEKGLLFGPYGGWTPKFLKEGSYLDLFSIRPDNIPSYLGVAQQEF
 DLTKYLVTEVLKDDQKRDALREYMPEAQNGDWETIVAGQVRQVIKPAFFPKFGSLEFGT
 TLINNSEGTIAGLLGASPGASIAPSAMIELLERCFCGDRMIEWGDKLKMIPSYGKKLASE
 PALFEQQWARTQKTLKLEEA

>RXN01744 TRANSLATE of: rxn01744.seq check: 8546 from: 1 to: 1539
 VDVVDIARWQFGITTVYHFIFVPLTIGLAPLVAIMQTFWQVTGKEHWYRATRFEGTVLLI
 NFAVG VATGIVQEFQFGMNWSEYSRFVGDVFGGPLALEGLIAFFLESVFLGLWIFGWGKI
 PGWLHTASIWIVAIATNISAYFIIIVANSEFMQHPVGAEYNPETGRAELTDFWALLTNSTAL
 AAFPHAVAGGFLTAGTFVLGISGWIIIRAHRAKKAESIESKSHMRPALWVGWWTTVV
 SSVALFITGDIQAKLMFVQQPMKMASAESLCETATDPNFSILTIGTHNNCDTVTHLIDVP
 FVLPFLAEGKFTGVTLOGVNQLOAAAEQAYGPGNYSPLNFVITYWSFRAMIGLMLGSLAIA
 AIAWLLLRKKRTPTKIARLEFQIGSLIAIPFPFLANSAGWIFTEMGRQPWVHPNPEŠAG
 DARTEMIRMTVDMGVSDHAPQVWLTLLIGFTILYLILFVWVWLIRRAVLIGPPEEGAPS
 VEAKTGPATPIGSDMPMTPLQFTAAAPTTEKE

>RXN01752 TRANSLATE of: rxn01752.seq check: 3364 from: 1 to: 1461
 MMEQDLSYREILPLNASEEKKKAALIDAIEGLRVRDPLLSASIAFTRGQKVAFIIVVVG
 ILMILIFARQAALIGLSATCTFMYLITLLDRFIMFSRGIRAESIIQVSDDELAFPEDKLL
 TYTVLVPAYGEPEVIAQLLASMHAFDYPKHLQVLLMLEEDDLPTIAAAEAAGVDQVATI
 IKVPPAQPRTPKPKACNYGLHFATGEIVTIFDAEDMPDPLQLRRVVVAFERSASNTVCVQS
 RLSYRNARQNLLTAWFTIEYDVWFNLLPGVMRMNAPVPLGGTSNHLLTGVLKDLGAWDP
 FNVTENADLGVPIAAKGYSTAVLDSVTWEEANSDTINWLRQSRWYKGYLQTLVYMRRP
 KWLVLQELGIIPAVRFTFLMAGTPIIAVLNLFWYLSLTWILGQPGTIEQMFPFPAVYYPAL
 VCLLVANAATIFMNLIGCREGRDPLLLIAVLTFPLYWLLMSIAALKGTWQLITRPSYWEK
 TAHGLEA

>RXN01884 TRANSLATE of: rxn01884.seq check: 9417 from: 1 to: 1890
 VTAEIEMPVHQFLQDDRLRLDGMNRYWGYNSFGFFAPYNDYAANKNPGGAVAEFKGLVRS
 YHEAGLEVILDVVYNHTAEGNHMGPTIAFRGIDNEAYYRLVEGDRRHMDYTGTGNSLNV
 RDPHSLQLIMDSLRYWVTEMHVDGFRFDLASTLAREFDDVDRLATFFDLVQQDPVVSQVK
 LIAEPWDVGEQGYQVGNFPPLWTEWNGKYRDTVRDFWRGEPATLGEFASRLTGSSDLYAN
 NGRRPTASINFVTAHDGFTLNDLVSYNEKHNMANGEDGRDGESHNRSWNCGVEGPTDDPE
 IMQLRAQQRRNFLTLLLSQGTPLSHGDEMARTQNGNNNVYCQDNELAWVNWDAEENA
 DLVSFTRLLRIRANHPVFRRRQFLAGGPLGADVRRDIAWLVPNGTLMTQDDWDFAFGK
 SLQVFFNGDAIEEPDYRGQKIHDSSFILMFNAHFEPIDFNLPPEHFGMKWLLVDTTEAV
 GHPLEDLTIEAGGTITVPARSTMLLRQVEAPDYTKLEEKIAAEKREQELAAEKEAAEKRE
 LELAAAEAEADAALHLAAERASTQEAELAHQHGADAIADAEVAEPPQELPQDEVAEEVE
 TEPDTEPDTESDSEQAEVASEEPEADEEEK

>RXN01891 TRANSLATE of: rxn01891.seq check: 8435 from: 1 to: 864
 GGHYGLPFARSTVLFYYNKDLWAKAGLEDGRGPESWEEFSEWGPKLQEAAMD SGFAHGWGDA
 TNYLSWTFEGPMWSLGGNYSEGWESRLTTPETIRAVEWLKSTVDEGFATVSTDVTNEFAT
 GLIGSCIQSTGDLSSVAGAASFWDGVAALPNPTGEGACPTGGAGLGIPSGISEQRQDNAL
 KFIDFLTNAANTGYWSRETGYVPVRKDAASDPDHAAFLPENPAYNVAEQLPDTRSQDNF
 RVLLPNGDRITIGDALEKICLTGADIDVTLAEVETKLNITYTRDIEPLI

>RXN01895 TRANSLATE of: rxn01895.seq check: 607 from: 1 to: 951
 MSVNPTREPGGRHHVVVIGSGFGGLFAAKNLAKADVDTLIDRTNHHLFQPLLYQVATGI
 LSSGEIAPSTRQILGSQENVNVIKGEVTDINVESQTVTASLGEFTRVFEYDSL VGAGAG
 QSYFGNDHFAEFAPGMKSIDDALEIRARIIGAFAERAEICEDPAERERLLTFVVVGAGPTG
 VELAGQLAEMAHRTLAGEYKNFNTNSAKIIILLDGAQVLPFPFGKRLGRNAQRTLEKMGVN
 VRLNAMVTNVDATSVTYKTKDGEEHTIESFCKIWSAGVAASPLGKLVAEQTG VETDRAGR
 VMVNDL SVGDQKNVFV

>RXN01927 TRANSLATE of: rxn01927.seq check: 8048 from: 1 to: 1380
 MALVLGIDSSTQSKALLVDAATGQVIDEGRASHPSGSEVDPRAWIAALDQATEGLLERA
 DAVSIAGQQHGMVALDENDEIVRPALLWNDTRSQAALDLNEEIGGDQAAVDATGSVYVA
 SLTATKMRWMRDHEPENARTASVMLPHDFLTWHLMGRGRKVTDHGDASGTGYSTRDRA

WRTDLAALALGHEVELPELLAPNAIAGTTPGGVKVAAGTGDNAAAALGLDLQPGDVSVSI
GTSGVAGMTVQHSVHDPSGLVTGFADATGAYFPLACTLNGAPVLEFGRRILGVWEFEFDA
LALAAQPGSGGVTLQPYLEGERTPNRPAARGVLAGLNCATTREDFARATVEGLLLALDDA
VTALVEATGVPVQRIQLIGGGARSQAVREIAPEIFGHEIVVPEPAEYVALGAARQAAWAL
SGEATPPQWPTPGSDPHRAPKNTELSTRYAKLRAATQGWY

>RXN01952 TRANSLATE of: rxn01952.seq check: 6335 from: 1 to: 1713
MTQPGQTTTTTSHAEIDAFKRIVGDEHVLTSERATMPFSKGYRFGGGPVFAVVRPGTLVEM
WRALQVSDNNLIVIPQASNTGLTGGSGPGFQDYDRPIVIISTHRIDEVHLINDAREAIS
LAGTPLTHLTDALAKHQREPHSVIGSTSIGASVIGGIANNSSGGSQIRKGPFTTREAIFAR
VNDDGKVELVNLHGLISLGDDPEVALDRLQRGWSPEDVTPAPEDSNETEYAEHLRKIVPS
PARYNANPEYLFEASGSAGKLMVFAVRTRTFPREVHPTVFYIGTNNTHELEEIRRLFLEA
DMPLPISGEYMGRSAFDLAKEYGKDTFVFLKFMSPALQTRMFSFKTWANGLFSKIPGIGP
TFADTVSQAMFVSLPNQLPKRMMEYRNRFEHLLLTVSESQKAASEKMLKEFFAEPEHTG
EFFICTSDEEKASASLNRFGAASAATRYAALKRRHIAGLIPIDVALRRDDWNWLEVLPEEI
DDQLEVKAYYGHFFCHVMHQDYVAKQGVLDLEALHDRIQHLLEERGAKLPAEHNYGRMYKL
PESMEEHFKELDPTNTFNAGIGGTSPHKDWA

>RXN02036 TRANSLATE of: rxn02036.seq check: 338 from: 1 to: 381
VHIPFGHLADTVSWDCGGGSCATNDLVSLFMPAAFMSTLAACVFGAWAIGLIAPALFIAV
TAWAFRSGVQAAIADGYTSATSVMGFEMTVSLILFIIAGLCFLGWIPMFINNRQVARKVRE
RAAGLSN

>RXN02046 TRANSLATE of: rxn02046.seq check: 7831 from: 1 to: 417
MKETLTTLTGLTHQMTYIVPANRTVPHLLPEAAEFETMPDVLATGYMVGIIEWACMELLRPH
LDDGEISLGHVNFSHAAPTVPGSTVTIDVEVTEINRRAVTFNITADEFATISTGTHQR
GVVNREKFVSRLEAPKEN

>RXN02100 TRANSLATE of: rxn02100.seq check: 3527 from: 1 to: 2325
LGRINAEQNLSEYLSDKLWYQDTADATDAVGDPVAVYFSMEFGIHPSLPIYSGGLGVLA
GENMKSASDLGVPLIGVGLLYTHGYFTQSLSGDGWQQEYKYHDPALPIEAVKDKNGEQ
VTVSVTYPGAQEVKIALVWVAVGRIPLLLLDTNIEANPEELRNVTDRLYGGDNEHRIKQE
LVLGVGVRVAVNAFCEARGLKRSSVAHLNEGHAFLTLERIRERIAEGMEYPAAFEQVRA
SNIFTTHTPVPAGIDRFDMEMVRRYLGGGQPEDQQLCVGVPIEKALELGQESDPHRFNMA
HMGLRASQHANGVAKLHGEVSRDMFAGLYPGYEPREVPIGHVTNGVHLPTWVKPEMKELI
DRVTGGADLAVADSWSNPQAVESEKIWKVRNKFRADLVEVARAATAKSWSHRGHTAEALA
WTSRVLDPNVLTIGFARRVSTYKRLTLMNRPERLRSILLNEERPQFVIAGKAHPHDMG
GKKLMQEIIVHFADQAGVRDRFLFLPDYDINLASYLISGADVWLNPNVPRPQEAASGTSGMKA
VMNGGLTSLISDGGWDEMPKETTGTWTIPTVESQDLECRDHLESQALYDLLENEVAPLFYK
RDKNIGIPQDWLDLVRESWTTLSMPMTSTRMVRDYTTQYYRPTKHQAELIAQPAEAADYAA
WLEHIKAEWAGVKVSDLKISESAITAQELEVSVRVDSGSLNDDFQAQALFGALGHNGDI
EDPEITVLTTPRGDGYAAKVSTDLPNGYGITARVVPNNRMLVSPAETRLITYLEN

>RXN02125 TRANSLATE of: rxn02125.seq check: 5612 from: 1 to: 801
MVATSQFIDDSEAAQAVRAAIVAGYRNIDTALAYGNERGVGEGIRTAGVPREELFISTKL
AAEIKDYDGAVAAIDESLAKIGLDYVDLMLIHSPQPWSDFRGGDYSEGNREAWRALEDAY
KAGKIRSIGVSNFLEADLENILDSATVAPHVNQLLVHVGNTPSELISFCDSKGILVEAYS
PIAHGEMLNQVQKAIADKYNVSIPLCIRYTIQLGTVSLPKTANPDHMSSNAQIDFEIS
EEDMAALQEVLTARDYGEHSGFPVYSGK

>RXN02206 TRANSLATE of: rxn02206.seq check: 8771 from: 1 to: 936
MVGSSGLRVSRGLGLTSTWGSGETELAEAGDIFKAFINSGGTLIDVSPNYTTGVAEEMLTG
MLDAEVSRSVAVISSAGVNPALPLGRRVDCSRRNLIAQLDVTLRALNTDYLDLWSVGWY
DEGTPPHEVADTLDYAVRTGRVRYAGVRGYSGWQLAVTHAASNHAAASARPVVVAQNEYS
LLERRAEQELLPATQHLGVGFFAGAPLGQGVLTAKYRSEIPHDSRAASTGRDAEVQSYLD
NRGRIIVDALDTAAKGLGISPAVTATTWVRDRPGVTAVIVGARTHEQLSHLLKAESVTLT
TPITQALDDVSL

>RXN02209 TRANSLATE of: rxn02209.seq check: 8467 from: 1 to: 1671
TESTVVPISIAGPKRPQDRILLSEAKEQFRKDLPTYTDDAVSVDTSSIPATRMVNEGGGQPE

GGVEADNYNASWAGSGESLATGAEGRPSKPVTVASPQGGEYTI DHGMVAIASITSCTNTS
NPSVMIGAGLIARKAAEKGLKSKPWVKTICAPGSQVVDGYYQ RADLWKDLEAMGFYLSGF
GCTTCIGNSGPLPEEISAAINEHDLTATAVLSGNRFEGRISPDVKMNYLASPIMVIAYA
IAGTMDFDFFENEALGQDQDGNVFLKDIWPSTEEIEDTIQQAISRELYEADYADVFKGDK
QWQELDVP TGDTFEWDENSTYIRKAPYFDGMPVEPVAVTDIQQARVLAKLGDSVTTDHIS
PASSIKPGTPAAQYLDHGVVERHDYNSLGSRRGNHEVMMRGTFANIRLQNLVDIAGGYT
RDFTQEGAPQAFIYDASVNYKAAGIPLVVLLGGKEYGTGSSRDWAAKGTNLLGIRAVITES
FERIHRNLI GMGVPLQFPAGESHESLGLDGTETFDITGLTALNEGETPKTVKVTATKE
NGDVVEFDAICPHRHR

>RXN02213 TRANSLATE of: rxn02213.seq check: 8081 from: 1 to: 774
VTESKNSFNAKSTLEVGDKS YDYFALS AVPGMEKLPYSLKVLGENLLRTEDGANITNEHI
EAIANWDASSDPSIEIQFTPARVLMQDFTGVPCVVDLATMREAVAALGGDPNDVNPLNPA
EMVIDHSVIVEAFGRPDALAKNVEIEYERNEERYQFLRWGSESFSNFRVVPPTGIVHQV
NIEYLARVVF DNGLAYPDTCIGTDSHTTMENGLGILGWGVGGIEAEAAMLGQPVMSMLIP
RVVGFKLTGEIPVGV TAT

>RXN02326 TRANSLATE of: rxn02326.seq check: 550 from: 1 to: 816
MLGRPTKVTPSSKVVGD LALHLVGAGVDPADFAADPQKYDIPDSVIAFLRGELGNPPGGW
PEPLRTRALEGRSE GKAPL TEVP EEEQAHL DADDSKERRNSLNRLLPKPT EEFLEHRRR
FGNTSALDDREFFYGLVEGRETLIRLPDVRTPLLVR LDAISEPDDKGMNRNVVANVNGQIR
PMRVRDRSVESVTATAEKADSSNKGHVAAFPAGVVTVTVAEGDEVKAGDAVAII EAMKME
ATITASVDGKIDRVVPAATKVEGGDLIVVVS

>RXN02327 TRANSLATE of: rxn02327.seq check: 173 from: 1 to: 960
LLATRVRSFALKPAAEAVAKLTPELLSVEAWGGATYDVAMRFLFEDPWDR LDELREAMPN
VNIQMLLRGRNTVG YTPY PDSVCRAFVKEAASSGV DIFRIFDALNDVSQMRPAIDAVLET
NTAVAEVAMAYSGD LSDPNEKLYTLDY YLKMAEEIVKSGAHILAIKDMAGLLRPAAVTKL
VTALRREFDL PVHVHTHDTAGGQLATYFAAAQAGADAVDGASGTTVWHHLPSHPLSAIVA
AFAHTRRD TGLSLEAVSDLEPYWEAVRGLYLPFESGTPGPTGRVYRHEIPGGQLSNLRAQ
ATALGLADRFELIEDNYASR

>RXN02328 TRANSLATE of: rxn02328.seq check: 5494 from: 1 to: 1596
VTAITLGG LLLKGIITLVSTHTSSTLP AFKKILVANRGEI AVRAFRAALETGAATVAIYP
REDRGSFHRSFASEAVRIGTEGSPVKAYLDIDEIIGA AKKV KADAIYPGYGFLSENAQLA
RECAENGITFIGPTPEVLDTGDKSRAVTA AKKAGLPVLAESTPSKNIDEIVKSAEGQTY
PIFVKAVAGGGGRGMRFVASPD ELRK LATEASREAEAAFGDGAVYVERAVINPQHIEVQI
LGDHTGEVVHLYERDCSLQRRHQKVVEIAPAQHLDPELDRICADAVKFCRSIGYQGAGT
VEFLVDEKGNHVFIE MNPRIQVEHTVTEEVEVDLVK AQMRLAAGATLKE LGLTQDKIKT
HGAALQC RITTEDPNNGFRPDTGTITAYRSPGGAGVRLDGAAQLGGEITAHFDSMLVKMT
CRGSD FETA VARAQRALAEFTVSGVATNIGFLRALLREEDFTSKRIATGFIADHPHLLQA
PPADDEQGRILDY LADVTVNKPHGVRPKDVAAPIDKLPNIKDLPLPRGSRDR

>RXN02333 TRANSLATE of: rxn02333.seq check: 9284 from: 1 to: 915
MNLFSNGVDVGRRRQAFKAALAAPHIARLP GAFSP LIARSIEEAGFEGVYVSGAVIAADL
ALPDIGLTTLTEVAHRARQIARVTDLGVLVDADTGFGEPM SAAARTVAELEDAGVAGCHLE
DQVNP KRCHLDGKEVVRTDVMVRRIAAVSARRDPNFVICARTDAAGVEGIDAAIERAK
AYLDAGADMIFTEALHSEADFRYFRHAI PDALLANMTEFGKTTLSADVLEEIGYNAVI
YPVTTLRIAMGQVEQALAEIKEHGTQEGWLD RMQHRSRLYELLRYEDYNVFDQHIFTYRK
GENNE

>RXN02399 TRANSLATE of: rxn02399.seq check: 7887 from: 1 to: 1344
VVGTAHCESALKEVTLMSNVGKPRTAQEIQDWD TNPRWNGITRDY TADQVADLQGSVIE
EHTLARRGSEILWDAVTQEGDGYINALGALTGNQAVQQVRAGLKAVYLSGWQVAGDANLS
GH TYPDQSLY PANSVPSVVR RINNALLRSDEIARTEGDTSDVNWVVP I VADGEAGFGGAL
NVYELQKAMIAAGAAGTHWEDQLASEKKCGHLGGKVLIPTQQHIRTLSARLAADVANTP
TVVIARTDAEAATLITSDVDERDQPFITGERTAEGY YHVKNGLEPC IARAKSYAPYADMI
WMETGTPDLELAKKFAEGVRSEFPDQLLSYNCSPS FNWSAHLEADEIAKFQKELGAMGFK
FQFITLAGFHSNLGMFDLAYGYAREGMTSFVDLQ NREFKAAEERGF TAVKHQREV GAGY
FDQIATTVD PNSSTTALKGSTEEGQFHN

>RXN02404 TRANSLATE of: rxn02404.seq check: 8768 from: 1 to: 2217
MTEQELLSAQADNAGTDSTERVDAAGMVAQVLYDFVTEAVLPRVGVDAEFWSGFAAI
ARDLTPRNRELLARRDELQMLIDYHRNNSGTIDQEAYEDFLKEIGYLVEEPEAAEIRTQ
NVDTEISSTAGPQLVVPILNARFALNAANARWGSYDALYGTNAIPETDGAKEGKEYNPV
RGQKVIEWGREFLDSVPLDGASHADVEKYNITDGKLAHIGDSVYRLKNRESYRGFTGN
FLDPEAILLETNGLHIELQIDPVHPIGKADKTGLKDIVLESATITIMDFEDSVAAVDAED
KTLGYSNWFLNTGELKEEMSKNGRIFTRELNKDRVYIGRNGTELVLHGRSLLFVRNVGH
LMQNPSILIDGEEIFEGIMDAVLTTVCAIPGIAPQNKMRNSRKGSIIYVKKQHGPEEVA
FTNELFGRVEDLLDLPRHTLKVGVMDERRTSVNLDASIMEVADRLAFINTGFLDRTGDE
IHTSMEAGAMVRKADMQTAPWKQAYENNNVDAGIQRGLPGKAQIGKGMWAMTELMAEMLE
KKIGQPREGANTAWVPSPTGATLHATHYHLVDVFKVQDELRAAGRDRSLRNILTISTAPN
TNWSEEEKKEEMDNQCQSILGYVVRWVEHGVGCSKVPDIHDIDLMDRATLRISSQMLAN
WIRHDVVSKEQVLESLEMAVVVDKQAGDEAYRDMAPKYDASLAFQAADKLIFEGTKSP
SGYTEPILHARRREFKAKN

>RXN02434 TRANSLATE of: rxn02434.seq check: 219 from: 1 to: 1650
MRTFAAYIAIDGLSFSYPNTHVLSDISLTVANGDIAGLIGENGAGKSTLLSLIAGVMEPD
QGRIYLPERTGFIAQETDLPFEQPVQSLIDAAVAPVRAVDAAITDLSTKLGDASLSAEEQ
AQVATDFDAALGAAEELGLWELDARIETIVAGLGLAEVDRSTPIGELSGGQRRRFALAAL
LLEPHDALIFDEPTNHLDDTAVDFLISEISRFGKPVLIASHDRFFLDSVCTELIDLDPAL
GPEGGSGEVVKQAVSFGGGFSEYIKERETRRTWAQLYTAQETEREKLEETTGTTESDIF
HSSVSKSEAKITAKFYADRAAKTQGNRVRSAKNRLKELERYEIPAPPKPLEFQGIPEASG
NGHGETLEVRAIAVENRLQPLTFHIDPGDHILVEGPNVGKSTLLSVLEGVLEPTGELI
VPEGLKVARLKQDDQWTEKQLNTPVDELFAALSKGPVGLNLVEMGLLRETSQSSPLRALS
LGQRRRVSLGLILASPPDLLLDEPTNHLSLALSEELESAIEKFPGRVILASHDRWIRKR
WTGKKISLSR

>RXN02461 TRANSLATE of: rxn02461.seq check: 9219 from: 1 to: 408
MRGLIVDYAGVLDGTDEDQRRWRNLLAAAKKNGVGTVILSNDPGGLGAAPIRELETNGVV
DKVLLSGELGVEKPEEAAAFQAAADAIDLPMRDCVLVDDSI LNVRGAVEAGLVGVYQQFD
RAVVEIVGLFGLGEF

>RXN02480 TRANSLATE of: rxn02480.seq check: 3686 from: 1 to: 1656
MTTDDHKQLGIMYIIMSFSFFFLGGLMALLIRAEFTPLQLSNEQFNQLFTMHGTVML
LLYGTPIVWGFANYVLPQIGAPDVAFPRNNAFGFWITTVGGVAMLTGFLTGGGAADFGW
TMYSPLSDAIHSPGLGSDMWIVGVGATGIGSVASAINMLTILCLRAPGMTMFRMPIFTW
NIFVVSVLALLIFPLLLAAALGVLYDRKLGGHLYDPANGGSLWQHLLFWFFGHPEVYVLA
LPFFGIVSEIIPVFSRKPMFGYVGLIFATLSIGALSMVWAHMFVTGAVLLPFFSFMTF
LISVPTGVKFFNWVGTMMWKGHITWETPMIWSVGFMTFLFGGLTGIMLASPLDFHLADS
YFLIAHFHYTLFGTVVFASCAGVYFWFKMTGRMMDERLGKIHFWLTFVGFHGTFLIQHW
VGNMGMPRRYADYLDSDGFTIYNQISTVFEYFLLGLSVIPFIWNVFKSWRYGELVTVDPPW
GYGNSLEWATSCPPPRHNFASLPRIIRSERPAFELHYPHMIERMRAEAHTGHDDINAPEL
GTAPALASDSSR

>RXN02554 TRANSLATE of: rxn02554.seq check: 9544 from: 1 to: 624
MSHTKPSIAILGAGRVGSSSLARSABAAGYEVKVAGSGAVDKIALTAELMPGAVPSTADQ
AVKDADIVFLAVPLHKFRSVNPATLEGKIVIDTMNHVVPVNGELEEDQDPRSTSEIIAE
FFAGSTMVKSFNHIGYHEIEQDAGTGRAIAYATDDVDAGAQAQLIKSFGFVPLNIGALE
NGRILEPGQEAFAHLNKDSRLELVNQR

>RXN02556 TRANSLATE of: rxn02556.seq check: 1750 from: 1 to: 1158
LIVSTQPITDRSALSAEHAIEVIKATLPLVGGKINEITPVFYNKMFAAHPELIANTFNRRGN
QKQGDQKALAASIATFATMLVTPDAPDPVQLLSRIGHKHVSLGITADQYDIVHEHLFAA
IVEVLGAETVTAPVAEAWDAVYWIMANVLIGFENNLYASNDLEPGDVFREVTVTAKKQLS
ATVWEYTLAGELVAPEPGQYTSIGVVLDDGARQLRQYSLGGSDEYRIAVEDNGEVSGF
LRDRVSVGDKIEATIAAGDLVLNKDTPVVLISQIGISTPMVGMLAGMNPEDVVLHAD
QAESTYAQVEEVQGLVEKLPKAAFEIFYRDNDQWLEVAGRIPSGASVYLCGGVEFLKNVR
EQIEALDEQPRDVNFELFAPNDWLIS

>RXN02560 TRANSLATE of: rxn02560.seq check: 4626 from: 1 to: 867
MQGNSLNLADNSERKKPMPSPGELLAARYGQPATWTPPQWNETLDVIHQHRSVRRWLDKP

VDDDTIRTIISAAQSAGTSSNKQVISVIVVKDPELRKGLAGITRQMFPHLEQVPAVLIWL
IDYSRISAVAAREDLPTGALDYLDEAAWGFLDAGIAAQNAIAAESLGLGTLYLGSVRND
AEAVHKKLLGLPPEIVPVVGLEMGHADPPEPAGIKPPLPQEAIVHWDITYTEKNLELIDSYD
RALDYYSTRYQGHQLWSKQTAHRAASKSFSKTNRQFLRGVFERAGFGLR

>RXN02591 TRANSLATE of: rxn02591.seq check: 6816 from: 1 to: 1830
MTTAAIRGLQGEAPTKNKELLNWIADAVELFQPEAVVFVDGSAEWDMAEDLVEAGTLI
KLNEEKRPNSYLARSNPDSVARVESRTFICSEKEEDAGPTNNWAPPQAMKDEMSKHYAGS
MKGRMTMYVVPFCMGPISDPDPKLGVLTDSEYVVMRIMTRMGIEALDKIGANGSFVRC
LHSVGALEPGQEDVAWPCNDTKYITQFPETKEIWSYSGYGGNAILAKKCYALRIASVM
AREEGWMAEHMLILKLINPEGKAYHIAAAFPSACGKTNLAMITPTIPGWTAVVGGDDIAW
LKLREDGLYAVNPENGFFGVAPGTNYASNPIAMKTMEPGNTLFTNVALTDDGDIWEGMD
GDAPAHLLIDWGMNDWTPESDENAAHPNSRYCVAIDQSPAAPEFNDWEGVKIDAILFGGR
RADTVPLVTQTYDWEHGTVMVGALLASGQTAASAEAKVGTLRHDPMAMLPFIGYNAGEYLQ
NWI DMGNKGGDKMPSI FLVNWFRRGEDGRFLWPGFGDNSRVLKWVIDRIEGHVGADETVV
GHTAKAEDLDLDGLDTPIEDVKEALTAPAEQWANDVEDNAEYLTFGLPRVPAEVHSQFDA
LKARISAAHA

>RXN02596 TRANSLATE of: rxn02596.seq check: 6451 from: 1 to: 1203
MTESKNYDLIVVGSGLFGLTVAERAASQLGKKVLIVERRSHLGGNAYSEAPETGIEIHK
YGAHLFHTSNTRVWEYVNQFTSFTGYQHRVFAMHNGTAYQFPMGLGLINQFFGKYISPDE
ARELIKEQSAEIDSSDATNLEEKAI SLIGRPLYEAFIRDYTAKQWQTDPNLPAKNITRL
PVRYNFNRRYFNDTYEGLPTDGYAAWLEKMAEHELIDVRLDWDVFDVRRDDLRSNPDAPV
VYTGPLDLTYFNYAEGKLGWRTLDFETEVVETGDFQGTTPVMNYNDADVPTFRIHEFRHFHP
ERDDSYPKDKTVIMREFSRFADNEDEPYYPINTPDDRMLKQYRLLAEEAANNKVLFGG
RLGTYQYLDMHMAIGSALSMDNKLVPFFEEGTPLEQERGH

>RXN02654 TRANSLATE of: rxn02654.seq check: 5233 from: 1 to: 885
MISLLNDPRTLFPKVDPPKQSQPEPGLDIKLSPOADIGLSSYQSGSRLKGRKALITGGDS
GIGAAVAIAYAREGADVAIAYLPEEQADADRVLQAIETGQKAFSFPGLRDPEYCRSLV
QETVNALGGDLILVNNASRQVWAPGLTEITDENFDQTLQVNLYGSFRVTKAAI PHLKPGS
SIIFTSSIQAYQPSSETLLDYAMTKAALNNLSKGLASSLIGDGIRVNSVAPGPFWTPLQPS
HGQPQEKIEGFGQHAPIGRAGHPVELAGAYVFLASDEASYVVGETLGVTTGGTPTP

>RXN02674 TRANSLATE of: rxn02674.seq check: 2941 from: 1 to: 1452
VTATFAGIDATKHLIGGQWVEGNSDRISTNINPYDDSVIAESKQASIADVDAAYEAAKKA
QAEWAATPAAERSAI IYRAAEELLEEHREEIVEWLKESGSTRSKANLEITLAGNITKESA
SFPGRVHGRISPSNTPGKENRVYRVAKGVVGVISPNWFLNLSIRSVAPALAVGNAVVIK
PASDTPVTGGVIPARIFEEAGVPAGVISTVAGAGSEIGDHFVTHAVPKLISFTGSTPVGR
RVGELAINGGPMKTVALELGGNAPFVVLADADIDAAAQAAAVGAFLHQGQICMSINRVIV
DAAVHDEFLEKFVEAVKNIPTGDPSAEGTLVGPVINDSQLSGLKEKIELAKKEGATVQVE
GPIEGRVLVHPHFVSDVTSMEIAREEIFGPLISVLKADDEAHAAELANASDFGLSAAVWS
KDIDRAAQFALQIDSGMVHINDLTVNDEPHVMFGGSKNSGLGRFNGDWAIEEFTTDRWIG
IKRS

>RXN02675 TRANSLATE of: rxn02675.seq check: 8425 from: 1 to: 1857
MNEFDQDILQEIKTELDELILELDEVQTTHSEAIGQVSPHLYVGARNLMHYAHLRTKDLR
GLQQRLLSSVGATRLTTTEPAVQARLKAARNVIGAFAGEGPLYPPSDVVDFAFEDAIDEILDE
HAEILLGEPLDTPSCIMVTLPTAATDIELVRGFAKSGMNLARINCAHDDETVWKQ MID
NVHTVAEEVGREIRVSMDLAGPKVRTGEIAPGAEVGRARVTRDETGVLTTPAKLWITAHG
SEPVPAPESLPGRPALPIEVTPEWFDKLEIGSVINVPDTRGSRRRAFTVTRVFDGAVLAEG
PQKAYISNGTLLHNYDRSRVYGI PAVVQRINLKVGDRLILTDEELTYDPSLGSGRTPRI
SCTLPQAVDAIKVGHVRLFDGGAIAAVCIDKTSTADGHNDVELEVTHARPQGVNLAAYKG
INLPDSELPLPSLTHEEDLQHLRFVVKYADIAAISFIRNVADVEYLLQALADIGDPVAVER
LGLVLKIETIPGYEGLAQILLTGMRHENFGIMARGDLAVELGFDRMAEVPQLIMALAEA
AHVPTILATQVLENMAKNGLPSRAEITDAAMALRAECVMLNKGPHINDAIKVLTEMSRKL
GASQRKSRLLLRKVKSWEE

>RXN02688 TRANSLATE of: rxn02688.seq check: 959 from: 1 to: 669
MAGRIILLRHGQTHNNVKHLLDTRPPGAELTDLGRKQALEVGHELATYSGERLAHVYSSI
VLRAQQTAVLATSTFEKARDMQSGAIPLDVVEGIQEINVGD FEMRGDEEAHMNYSRALNG

WLHGDPAAAGLPGGETYKDVLNRYQPTLDRIMDSHDLDDDRDVAVVSHGAVIRIVATHATG
VDPNFANFTYLGNCRFVVLPEPNGKFSQWDVVRWTDSPWPQE

>RXN02765 TRANSLATE of: rxn02765.seq check: 9432 from: 1 to: 759
MSNQLPDHVRDAFQVGAGPAEQLGQAWDFGFRVGNVTFAKVTAPEVSGWSSKTRETLKPE
GVRVVRPIRSTDGFRVVGWRASVFSTGTISKRVDET VVAGLRLADALVDTHAPEPVDNV
FNRADVQAWEEQPRIGELLEPINRVNQVGHADMLATTLYAGTQPPAVTDLVPVLRPHGF
TAALVIVDGLLLGAVDEGILRRFSLPEIEQLVLR AFLFRNLQEFSENNDPNVISNLNR
VESTLVSYVSDKI

>RXN02803 TRANSLATE of: rxn02803.seq check: 251 from: 1 to: 657
VSGEMLAALASAGMASQGV DVIRVGVIPPAVAF LTDDYGADMGVMISASHNPM PDNGIK
FFSAGGHKLPHDVEDEIERVMDSLPAEGFTGHGVGRVIEEATDAQDRYLEHLKEAVPTSL
EGIKIVDAANGAASVVAPTAYEAAGATVIAIHNKPDSYNINMDCGSTHIDQAQPPVLKH
GADLGLAHDGDADRLAVNKDANLVDGDQIMALLAIAMK

>RXN02821 TRANSLATE of: rxn02821.seq check: 9220 from: 1 to: 240
MNEIILAQDATESTITGLGAVGYGIATIGPGLGIGILVGKALEGMARQPEMAGQLRTTMF
LGIAFVEALALIGLVAGFLF

>RXN02829 TRANSLATE of: rxn02829.seq check: 1194 from: 1 to: 273
MQKNILKSGIEISELGLGCM SLGTDYKKAQPIIESAIDNGITYFDTADIYDQGVNEEIVG
KALKKYQNRDDIVIGTKVGNRLTDDGHMTWD

>RXN02920 TRANSLATE of: rxn02920.seq check: 9771 from: 1 to: 912
MKFVMPHPLWESTTAVIEGGGHERVEDIKDADFIFFNGSAPEFPDLPENIKFVQASMAGI
DALVKRGVVNEKARWANAAGLYADTVAESTIGLILAQMHMHATTRLAKSWSVRPEVENNK
SWLHDNKTVAAILGAGGIGVRLLEMLKPFNVKTI AVNNSGRPVEGADETFAMDKA EHVWAE
ADVFLVILPLTDATYQIVNAETLGKMKPSAVVVNVGRGPLINTDDLVDALNNGTIAGAAL
DVTDPPEPLPDSHPLWEMDNV VITPHTANTNERIRALTGELTLRNIELFEAGEQMATEVDV
VAGY

>RXN03014 TRANSLATE of: rxn03014.seq check: 5818 from: 1 to: 906
YVGFEVLLVASVLLTLGASPARVRSGVGYVMVSMASMVFLFGLAMVYASVGT LNMAHV
GLRMEDVPSGTRSAIFAVLLVAFGIKAAVFPLDSWLPDSYPTAPSLVTAVFAGLLTKVGV
YSIIRARSIIFTDGLSLDTMLMWVALATMLIGILGAMAQNDIKRLLSFTLVSHIGYMIFGV
ALGSAQGLSGAIFYAIHHILVQTS LFLVVG LVERQAGSSSLRRLGSLAYISPLLAILYFI
PAINLGGIPPFSGFLGKIMLIEAGARRWQLAGMGPYRRRRCHLTAHLVHHGSGLVQGLLA
RP

>RXN03015 TRANSLATE of: rxn03015.seq check: 9736 from: 1 to: 282
LGVGTPQQKGTAAADLT YVRQVVEDLVPLLEGEHIIFGKSTVPVGTAEQLQELADSLVKP
GSHVEIAWNPEFLREGYAVKDTITPDRI VVGVR

>RXN03030 TRANSLATE of: rxn03030.seq check: 5862 from: 1 to: 564
VLPLDPAASLKIYPLVTGR TKIDEVQLQLEAAIRAE LPGVTLVSSESEADLAIVWARPEI
ALFEDDLEGVSLSDPRANGVDVERVQAVEAAVPTILAVNFTNPWVLSEIEPGAAAVVGT
FEIKPEFLLKALTGQEGGPKGKLPLTV PASMQA IADSPRIDPGKFLDESYTYVDSAGMAY
KYGHGLNF

>RXN03043 TRANSLATE of: rxn03043.seq check: 4634 from: 1 to: 1362
DLDGFRQEVSRQGGIPSYPHPHGMKDFWEFFTVSMGLGPMDAIYQARFNRYLENRGIKD
TSDQHVAFLGDGEMDEPESRGLIQQAALNNLDNLTFV VNCNLQRLDGPVRGNTKIIQEL
ESFFRGAGWSVIKVVGREWDELLEKDQD GALVEIMNNTSDGDYQTFKANDGAYVREHFF
GRDPRTAKLVENMTDEEIWKLPRGGHDYRKVYAA YKRALETKDRPTVILAHTIKGYGLGH
NFEGRNATHQMKKLTLLDKLFRDKQGIPITDEQLEKDPYLPYYHPGEDAPEIKYMKER
RAALGGYLPERRENYDPIQVPP LDKLRSVRKSGKQQIATTMATVRTFKELMRDKGLADR
LVPIIPDEARTFGLDSWFPTLKIYNPHGQNVVPVDHDLMLS YREAP EGQILHEGINEAGS
VASFIAAGTSYATHGKAMIPLYIFYSMFGIP AHR

>RXN03044 TRANSLATE of: rxn03044.seq check: 1253 from: 1 to: 831
MARGFLLGATAGRTTTLTGEGLQHMDGHSPVLASTNEGVETYDPSFAYEIAHLVHRGIDRM
YGPKGEDVVIYYITIYNEPTPQPAEPEGLDVEGLHKGIIYLYSRGEGTGHEANILASGVGM
QWALKAAASILEADYGVNRANIYSATSWVNLARDGAARNKAQLRNPAGADAGEAFVTTQLKQT
SGPYVAVSDFSTDLPNQIREWVPGDYTVLGADGFGFSDTRPAARRFFNIDAESIVVAVLN
SLAREGKIDVSVAQAQAEKFKLDDPTSVSVDPNAPEE

>RXN03056 TRANSLATE of: rxn03056.seq check: 8420 from: 1 to: 678
LDAAGISLSAVGSDFGKINITDPFEDHLERARHGVEVAKLFGAKYIRMFSFFIAEGDNPE
SFRKEVLSRTHAMVELAEAGGITLLHENEGKIYGDSPQVRKDLITSIDSPNYRAIYDAAN
YVQTGFKPFDEAWPIVKDYVDYVHIKDATIPDAEHPIGIIKPAGQGQGYPELLAALNAD
GYNGFVSIEPHGLDFDEFGGLCGPDLWTSACDALAGILNNINAEYN

>RXN03057 TRANSLATE of: rxn03057.seq check: 8669 from: 1 to: 672
LASDLGIKFVAVVDKDLTAEKFATGLGAAGDSSESSVKAHGSPLALFSKKKIDVLHITT
PHDQHIGLALEALHHGVNVILEKPLANELDQAQRLIDYLDENPDGPKIAVCYQNRYNVSS
QELRRLDSDGLGAINGAYSSVWTRTPGYTTQKPWRGQQAHS GGGLLMNQAIHTLDLLQ
WFLGKATEVKGTVSTDKYADVIDVEDTAHAYIGHESGVHTSEVS

>RXN03061 TRANSLATE of: rxn03061.seq check: 2307 from: 1 to: 330
VSLTFPVINPSDGSTITELNHDSTQWMSALS DAVAAGPSWAAKTPRERSVVLTAIFEAL
TERAQELAEIIHLEAGKSDAEALGEVAYGA EYFRWFEEAVRLPGRYGQS

>RXN03076 TRANSLATE of: rxn03076.seq check: 6328 from: 1 to: 1590
MDESRLSFGTAGLRAPVGPARGHQMNVLQVTRTTAGVASWLAERAALNPVPHLVPEDETG
IGRALYPQDGPLRVVVG YDARYGSHTFAATTA EVFAGAGFEVTLTPTSPPTPLIPVLNKG
HGLDAGVQITASHNGAADNGYKVFLSNGRQLYSELEPELEAHINAVEDPIRVPRVTVRPT
ADQLRRYVDEMVS LVPDQADLLRVN SERGNLRV VYTALHGVGGRAMANAFQFAGFPHTH
GVKAQQYPDPFTFPTVAFPNPEEPSAIELLLERAKEKNADILFALDPDADRCAGVIRTADG
GHRMLSGDEVGTL LTRLVPEYS GEGPRPVVATTVVSSQLLGIIAEDKGWDYSETLTGFK
NLSRAADGLDGPLAFAYEEAVGTCPVPDVVPDKDGISTALFMA SWAAELKAQGASLQOKL
NELYRRYGYFASSQIAVRTSSPRELVDHWAHPQOELIGVSVTPHILPEKQGIALHGQVG
HVHIRAIGRVSGTEAKAKLYLEVQQASSHDEAAQLLHQLEDEVQSWLSKL

>RXN03083 TRANSLATE of: rxn03083.seq check: 465 from: 1 to: 1023
MAKRIVIIGGGPAGYEAAAGAKYGA ETVIEDVGVGGS AVTMDCVPSKSFIAGTGIKTD
LRRADD MGLNRGLGKAHLEIDALNIRVKDLAKAQSE DILGQLQRSDVRMINGVGRFDDYN
TKQTTHYIKVTHSDGSEETVECDLV LVATGATPRILKGAEPDGERILTWRQVYDIEELPT
HLIVVSGVGTGAFVSAFAELGVKVTMVASRDRI LPHDDADAADVLETVLAERGV SLEKH
ARVESVTRTEDGGVCVRTADGREIYGSHALMTVGSI PNTADLGLENIGVELAPSGHIKVD
RSPAPTSPVCTQQVTVLTYSHWRPLQRCRAVSPCITHSVKA

>RXN03086 TRANSLATE of: rxn03086.seq check: 7524 from: 1 to: 408
MADQAKLGGKPSDDSNFAMIRDGVASYLNDSDPEETNEWMDSLDGLLQESSPERARYLML
RLLERASAKRVSLPMTSTDYVNTIPTSM EPEFP GDEEMEKRYRRWIRWNAAIMVHRAQR
PGIGVGGHISTYAGAA

>RXN03087 TRANSLATE of: rxn03087.seq check: 9553 from: 1 to: 213
MKIYAPFAGIVHYFVDEGDPVETGMQLGT VETIKLEAPIMAPGPGIVAKVSFDDFSDVTG
GDELLELEAKN

>RXN03096 TRANSLATE of: rxn03096.seq check: 423 from: 1 to: 402
MVLVWSKAFWRDRKDAPDGATALARPAPLVDIQDEVAVKDRNDVGRMPWGMVFSTALLVS
ASLAVSVLAGPLSSITGRAAESAQDVNIYRAAVLGPTTSTHHAHSRWSVTTPTAMTSTTA
STPMERRTNHDQWI

>RXN03101 TRANSLATE of: rxn03101.seq check: 8362 from: 1 to: 582
ILADEDDTVDVGA VIARIGDANAAAAPAE EEAAPAE EEPVKEEPKKEAAPEAPAATGAA
TDVEMPELGESVTEGTITQWLKAVGDTVEVDEPLLEVSTD KVDTEIPSPVAGTIVEILAD

EDDTVDVGAVIARIGDANAAAAPAEEEEAAPAAAAEPVKEEPPKKEEPPKKEEPPKKEAATTPA
AASATVSASGDNVP

>RXN03112 TRANSLATE of: rxn03112.seq check: 9249 from: 1 to: 504
VEIFGKTVGIVGFGHIGQLFAQRLAAFETTIVAYDPYANPARAAQLNVELVELDELMRSR
DFVTIHLPKTKETAGMFDHLLAKSKKQIIINAARGGLVDEQALADAIESGHIRGAGFD
VYSTEPCTDSPLFKLPQVVVTPHLGASTEEAQDRAGTDIADSVLKALA

>RXN03117 TRANSLATE of: rxn03117.seq check: 3867 from: 1 to: 1512
MITHEVRTHRSAEEFPYKKHLAHKMARVAADPVEVAADTQEMIITRIIDNASVQAASVLR
RPVSSARAMAQVRPVTGDRGASVFGLPGRYAAEWAAALANGTAVRELDHDTFLAAEYSH
GDNIPPILAAAQAGKGGKDLIRGIATGYEIQVNLVRGMCLHEHKIDHVAHLGPSAAAGI
GTLDDLVDVTIYQAIGQALHTTTATRQSRKGAISSWKAFAPAFAGKMSIEAVDRAMRGE
APSPIWEGEDGVIAWLLSGLDHIYTFPLPAEGEAKRAILDYTKESAEYQSQAPIDLAR
SMGEKLAAQGLDLRDVDSIVLHTSHHTHYVIGTGSNDPQKFDPDASRETLDSIMYIFAV
ALKDRAWHHERSYAPERAHRRRETIELWNKISTVEDPEWTRRYHSVDPAEKAFGARAVITF
KDGTVVEDELAVANAHPLGARPFAREQYIQKFRTLAEGVVSEKEQDRFLDAAQRTHELED
LSELNIELDADILAKAPVIEGLF

>RXN03144 TRANSLATE of: rxn03144.seq check: 7951 from: 1 to: 900
TTTATRQSRKGEISSWKAFAPAFAGKMAIEAMDRAMRGESESPAPIWEGEDGVIAWLLSGK
DHVYHVPLPEHGEPKLGILETYTKESAEYQSQAPIDLARMKPLVDAAGGTEHIAEIVL
RTSHHTHYVIGTGANDPQKMDPQASRETLDSIMYIFAVLQDGVWHHEFSYTRKRSTRP
ETLWHLKIRTVEDPEWTRRYHSDDPAKKAFAKAVITMADGTVIEDELAVADAHPLGAR
PFARENIEKFRTLAQGIVIDSEQERFLHAVQSLPDLDDLQNLNIEVDISNQAATKAGLL

>RXN03150 TRANSLATE of: rxn03150.seq check: 9986 from: 1 to: 624
VEAQFTSPLLNGQTCFLGTRILAPKSRYAEEVVDFAFTAFAGSLQVGTSSPDTQIGPMAT
ARQRERVESYISQGNAGARITVGGSRPRDLDAFFVEPTVFADVDNRAAIAQDEIFGPV
PSVVSQDDEHAIQLANDSEFGLGGTVWTSDFPERGAALARRVHTGTIGINRYIPDPAAPF
GGVKNISGLGRELGPGLASYQETQTIYL

>RXN03179 TRANSLATE of: rxn03179.seq check: 7214 from: 1 to: 666
AREAWRIFMSHWDLYAGTATGYWVEQEFHVFGINAERLNVGTPEHADAIFDELTDILAK
PDFRPRALAEQFNLEVLATDDPLDDLADHKALADDPFTSPRVLPTRFPDAYTKMYNAGW
AEKTTKLIDTAGDGKAGWEGYLQAMRNRRQYFINHGATSADHGLHDTDTTPLSHKDAQKI
LDKGLAGTATLAEMHAFEANTTYRSRKCPRRRLVMTIHQVCT

>RXN03180 TRANSLATE of: rxn03180.seq check: 39 from: 1 to: 510
FGENKDLISDSSFNRWLRTVSLGSTQDADMAAASNLAAANSKMARQNTDILDVSDGGVM
LGRNGALVLGPVVGTLHIKFIAPLNKRVERVMYKTGLSEAAAAEQCALEDRLREEMAHAL
YQWNPGRDENYDLVINTGSMTYEQIVDLVVETYARKYPLHVRIIPNGKDQ

>RXN03186 TRANSLATE of: rxn03186.seq check: 9438 from: 1 to: 210
MADQAKLGGKPSDDSNFAMIRDGVASYLNDSDPEETNEWMDSLDGLLQESSPERARYLML
RLLERASAKR

>RXN03187 TRANSLATE of: rxn03187.seq check: 1211 from: 1 to: 279
VAVSDFSTDLPNQIREWVPGDYTVLGADGFGSDTRPAARRFFNIDAESIVVAVLNSLAR
EGKIDVSVAQAQAEKFKLDDPTSVSVDPNAPPE

>RXS00584 TRANSLATE of: RXS00584.seq check: 7788 from: 1 to: 1125
MHSPERQEKMSPPVSLNAASTSNKRVAHFELPSPTDLIAANPLTPKQASKVEQDRQDIADIFAGDDD
RLVVVVGPCSVHDPEAAIDYANRLAPLAKRLDQDLKIVMRVYFEKPTIVGWKGLINDPHLNETYDIPE
GLRIARKVLIDVNLDDLPGCEFLPNPQYYADTVAWGAIGARTTESQVHRQLASGMSMPIGFKNGTD
GNIQVAVDAVQAQNPFFFGTSDDGALS SVVETAGNSNSHII LRGGTSGPNHDAASVEAVVEKLGENAR
LMIDASHANSKGDHIRQVEVVREIAEQISGGSEAVAGIMIESFLVGGAQNLDPAKL RINGGEGLVYGQS
VTDKCIDIDTTIDLLAELAAVRERRAAAK

>RXS01260 TRANSLATE of: RXS01260.seq check: 3260 from: 1 to: 1182

VTFNYEDAHKRSRGVSDKIVGGVHYLMKKNKIIIEIHGLGNFKDAKTLEVTGDKDAGKTITFDDCIIATG
SVVNTLRGVDFSENVVSFEEQILNPVAPKKMVIVGAGAIGMEFAYVLGNYGVDVTVIEFMDRVLPNEDA
EVSKVIAKAYKKMGVKLLPGHATTAVRDNGDFVEVDYQKKGSDKTETLTVDVVMVSVGFRPRVEGFGLE
NTGVKLTGERGAEIDDMRTNVDGIYAIGDVTAKLQLAHVAEAQGIVAAETIAGAETQTLGDYMMMPRA
TFCNPQVSSFGYTEEQAKEKWPDRKIVASFPFSANGKAVGLAETDGFAGIVADAEFGELLGAHLVGN
ASELINELVLAQNWDLTTEEISRSVHIHPTLSEAVKEAAHGSGHMINF

>RXS01261 TRANSLATE of: RXS01261.seq check: 5376 from: 1 to: 171
VTEHYDVVVLGAGPGGYVSAIRAAQLGKKVAVIEKQYWGGVCLNVGCIPSKVSDQKR

>RXS01758 TRANSLATE of: RXS01758.seq check: 8853 from: 1 to: 1017
MPKYIAMQVSESGAPLAANLVQPAPLKSREVRVEIAASGVCHADIGTAAASGKHTVFPVTPGHEIAGTI
AEIGENVSRWTVGDRVAIGWFGNCGDCAFCRAGDPVHCRERKIPGVS YAGGWAQNIIVPAEALAAIPD
GMDFYEPAPMGCAGVTTFNALRNKLDPGA AVAVFGIGGLVRLAIQFAAKMGYRTITTIARGLEREELAR
QLGANHYIDSNDLHPGQALFELGGADLILSTASTTEPLSELSTGLSIGGQTLTIIGVDGGDITVSAAQLM
MNRQIITGHLTGSANDTEQTMKFAHLHGKPLIERMPLDQANEAIARISAGKPRFRIVLEPNS

>RXS02574 TRANSLATE of: RXS02574.seq check: 9855 from: 1 to: 1008
LARAQIPEQQRDQVASLMMVGVANYDQALDALNQGVGGIFIGSWTDENLLTEPGRNIEALREAVGRDFS
VSIDFEGGRVQRATNILGDFPSPRVMAQTMTPEQVEDLAEILGTGLAAHGVTNVFAPVVDVDAWGLPVV
GDRSFSNDPAVAATYATAFAKGLSKVGITPVFKHFGHGRASGDSHTQDVVTPALDELKTYDLIPYGQA
LSETDGAVMVGHMIVPGLGTDGVPSSIDPATYQLLRSGDYPGGVPFDGVIYTDLDSGMSAISATHSPA
AVLASLKAGADQALWIDYGSLGSAIDRVDAAVSSGEYPQEQLASALRVQLLYITRLEQK

>RXS02735 TRANSLATE of: RXS02735.seq check: 6182 from: 1 to: 705
MVDVVRARDTEDLVAQAASKFIEVVEAATANNGTAQVVLTTGGGAGIKLLEKLSVDAADLAWDRIHVFFG
DERNVPSVSDSENEGQAREALLSKVSIPEANIHGYGLGDVDLAEAAARAYEAVLDEFAPNGFDLHLLGMG
GEGHINSLPHTDAVKESSAKVIAVFDSPKPPSERATLTLPVHSAKRVWLLVSGAEKAEAAAAIVNGE
PAVEWPAAGATGSEETVLFLLADDAAGNL

>RXS03215 TRANSLATE of: RXS03215.seq check: from: 1 to: 1008
IDVVSVVVANFLHREIVEALLASGKHVLCCKPLSDTIEDAEAMIEAAGRAATNGTIARIGLTYRRSPGV
AHIRDLVQSGELGKVLHVTGHYWTDYGSNAQAPISWRYKGPNGSGALADVGSHTLYLAEFVAGSDFAAV
RGGQLSTVITERPKPLGAIVGHEGGAVSDEYEAVENDDIASFSGSFIGGGTATLQVSRIQGHNPNTLGF
EVFCEKGSVLFDFRNSGEFKIFTPATSGDISQEAGYRTITIGPKHPYWRGGLAMDAPGVGIGQNEGFVF
QARAFLEEIAGISEAESLPRCATLEEGHNMQLIDAVSQSAAAGGETVAVPAAALIPANN

>RXS03224 TRANSLATE of: RXS03224.seq check: from: 1 to: 1158
MSFAEHAIWVYPLGALGAPIRPEAPVTHRLPNLIGWLDYVVELGCNALMLGPVFESVSHGYDTLD
FYRIDPRLGTEEDMDALLEANQRGIGVLFDGVFNVHSSSSKYLDLTGASFEGHDILAELDHTNPVAV
DLVVDVMNHWLDRGIAGWRDLAVYAIAPFWEKVLPEVRRKHPHAWIVGEMIHGDYSDYVKSSGIDSVT
EYELWKAIWSSIKERNFFLEWTLRHNFLDTFVPQTFIGNHDVTRIATRIGQSNAILAAAILFTVGG
TPSIYYGDEQGFGLKEDNVFGDDAIRPPLPAEFSPLGTWIENIYKALIALRRQHPWLYQAHTEVLEIA
NEAMTYKSVGLGGEELTVHLDLEEVSVRILDGEKVLQYSA

>RXC00233 TRANSLATE of: RXC00233.seq check: 7055 from: 1 to: 417
MSVNEADLNAVEEQLGRAPRGVLDISYRSPDGVPGVVMTPAKLDDGTPFPPTLYYLTDPRLTTEASRLV
ALVMKWMTDRLSTDEELRADYQRAHEHFLAKRNAIEDLGTDFSGGMPDRVKCLHVLIDYALAEPPHFL
L

>RXC00236 TRANSLATE of: RXC00236.seq check: 116 from: 1 to: 726
MVISFVGWALSFMGTAPIRQLQOIPEDVPPARGVEVPQIDTEADGRTSNHLRFWAEPQAQDTGVSAQA
IAAYGNAELIASTAWPGCNLGNWNTLAGIGQVETRHTYNGKMFGGSSLDENGVA TPPIIGVPLDGSPGF
AEIPD TDGGELDGDTEYDRAVGPMQFI PETWRMLGLDANGDGVADPNQIDDAALSAANLLCSNDRDLST
PEGWTA AVHSYNMSNQYLM DVRDAAASYALRQPAI

>RXC00271 TRANSLATE of: RXC00271.seq check: 7582 from: 1 to: 990
MFSSRSKVLASIFTVGALALASCSSDSSDSTSDAAGGDSYRVGINQLVQHPALDAATTGFKEAFEEA
GVDVTFDEQNANGEQGTALTISQQFASDNLDLVLAVATPAAQATAQNITDI PVLFTAVTDAVSAELVDS
NEAPGGNVTGTSDIAPIEQQLLELLQQLVPDAKSIGIVYASGEVNSQVQVDEVTKAAEPLGLSVNTQTVT

TVNEIQQAVEALGDVDVIYVPTDNMVVSGISSLVQVAEQKQIPVIGAESGTVEGGALATLGIDYTELGR
QTGEMALRILQDGEDPATMPVETATEFTYVINEDAAERQGV EIPQEILDKAERV

>RXC00338 TRANSLATE of: RXC00338.seq check: 9343 from: 1 to: 1140
VSDVTVGDIRRILDEAYPPALAESWDKVGLICGDPTESVKRVGLALDCTQAVADKAVIDMGLDMLIIHHP
LLLRGVTSVAADPEPKGVIIHTLIRGGVALFSAHTNADSARPGVNDKLAELVGITAGRPIATRLLGGMDK
WGVHVLPKDAAYLKMLFDAGAGAIGDYRECAFEIEGTGQFRPVEGANPAEGDV DKLFSLELRIEFVA
PRNLRLRLTSVLREAHPYEPAFDIVEMHSAESLENATGLGRVGELPEPMRLADVFQQVANNLPVTEWG
VRATGDPEQMVSRAVSSSGSGDSFLNDVIKLGVDVYVTSDLRHHFVDEYLREGGPAVIDTAHWASEFPW
TSQAQEILQDKAPQVEVDVISIRTDPTWMSARAVN

>RXC00362 TRANSLATE of: RXC00362.seq check: 1707 from: 1 to: 1347
MGIIALLVFIAIAVILNVFLKRDISEALLVGLVGTALVGGVNAPTLLIDAVVDAAQSEVTFAGMAFVFM
GIVVQSTGLIDRLIAILNSIFGRLRGGAGYVSTLGSALIGLIAGSTAGNSATVGSVTIPWMKKTGWTAE
RSATLVAGNSGLGVALPPNSTMFIIILALPAAAASSASQVYIALACGGAYAVLYRLAVVFYWRKDKIPA
TPDDQVRVSFGEAMKTGWRSPILFGLILIPVILTIGPLSEWLKTHGVGESGVKSMIIIVWPILITAIAL
IEGRKRIANNMAHFRVQISKDL PQFATVGISLFSALAAANIMEELGVGPQLSNWLDSDMLPKSVMVIIIV
CIMCIVVATPLSSTATAAAIGAPAVAALAAVGDPTVAIVVILLCTSTEGASPPVGAPIYLSAAIADAN
PTKMFVPLITYFVVP MILLLAWLVGMGFLPVIVPTG

>RXC00412 TRANSLATE of: RXC00412.seq check: 7568 from: 1 to: 1080
VSHTASTPTPEEYSAQQPSTQGTVEFRGITKVFSNNKSAKTTALDNVTLTVEPGEVIGIIGYSGAGKS
TLVRLINGLDSPTSGSLLLNGTDIVGMPESKLRKLRSNIGMIFQQFNLFQSRTAAGNVEYPLEVAKMDK
AARKARVQEMLEFVGLGDKGKNYPEQLSGGQKQRVGIARALATNP TLLLDEATSALDPETTHEVLELL
RKVNRELGITIVITHEMEVRSIADKVAVMESGKVVEYGSVYEVFSNPQTQVAQKFVATALRNTPDQV
ESEDLLSHEGRLFTIDLTETSGFFAATARAAEQGAFVNI VHGGVTTLQRQSFGKMTVRLTGNTAAIEEF
YQTLTKTTTIKEITR

>RXC00526 TRANSLATE of: RXC00526.seq check: 7744 from: 1 to: 690
MSLIEMRNIVKTYNIGSEGELTVLHGVDFHVD RGEFVS VGTSGSGKSTMMNIIIGLLDKPTDGTYTLDG
VDVLDISDDALASHRAKSIGFVFQNFNLIGRIDALKNVEMPMYAGIPAKQRRSRVELLEMVGMGERL
NHEPNELSGGQKQRVAIARALANDEPIILADEPTGALDSATGRMVMDIFHQLNKEQGKTIVFITHNP
ADESDRVVTMVDGRIIGSEVKHS

>RXC01004 TRANSLATE of: RXC01004.seq check: 9066 from: 1 to: 1062
VSIWATVLLIIIVLLSANAFFVAAEFALISSRRDR LDSLVSQGGKGAEKVLYATEHLSIMLAGAQFGITV
CSLILGKVAEPAIAHFIEVPFTSWGV PNDLIHPISFVIALAIITWLHILFGEMVPKNIAIAGPETLGMW
LAPVLIAFVKITRPLIEFMNWIARLT LRAFGVEQKNELDSTVDPEQLASMISESRSEGLLDAEEHARLS
KALRSEQRSIKELVIKDEDVRTLAFGKSGPTLHQLEEAVRETGFSRFPVTGRDGSYLGYYIHIKDILPRL
ADPEMDPSETIPRSALRPLSNVDADGLMDDV LDFMHYRSAHMAQVRLKGELLGVITLEDLIEEYVGTVN
DWTHESSDD

>RXC01017 TRANSLATE of: RXC01017.seq check: 6264 from: 1 to: 609
MAQKVTFWFDTTCFPCVWTSRWIKEVEQVRDIEIQWVPMSLAVLNEGRDLPEDYKERMKAAWGPARVFA
AVATDHADKGLDLYTAMGTRIHN DGRGPIEGSFNDVIAEAL EEVGLDAALGEVADTTEWDDALRAFHQT
AMDEVGNDVGTTPVVKLGDTAFFGPVLTRIPRGE EAGEIFDASFKLASYPHFFEIKRSRTENPQFD

>RXC01021 TRANSLATE of: RXC01021.seq check: 6144 from: 1 to: 522
MSSSESSRSEGSQPAPSVQPERRADSTGAPAAASKEASQQMDAAGVLEWARTAVEQLSERRAEINALNV
FVVPDADTGSNMITYMTAALDEALKLGELGDVARITEALAVG SVRGARGNSGVVLSQVLRAIAQAAADG
VIDGHTIQEALS IARSLVDRAITDPVEGTVVTVLRS

>RXC01212 TRANSLATE of: RXC01212.seq check: 3583 from: 1 to: 924
MPMTTTPAIDVTDLVRTYGDYTAVKGLNFHVQRGEVFGLLGTNGAGKTSTLEVIEGLSAPSSGTVRISG
LDPVADRILRPELGIMLQSGGLPSQLTVAETMDMWHGTCTYPRAIKDVLADVDLLHRENVKVGALSGG
EQRRDLACALLGDPSILFLDEPTTGLDPESRRHTWQ LLLDLKQRGVTMMLTTHYLEEAEFLCDRIAIM
NAGEIAVEGTLDELVAREKSIISFVL RGGQVELPVLSGAEIIRDNNHVRIATTTLQOHTLEILTAAET
GIALEGFAAKPATLESVFM DIASLENTSLQTA

>RXC01306 TRANSLATE of: RXC01306.seq check: 7259 from: 1 to: 1008

MTEWYVVL PATILLIALSAFFVIEFALLAARRNRLEETVETSRSSRAALRSLNELTLMLAGAQLGITM
VTFALGAITKPWVHYALMPLFEWARIPLVMADVIAFILSLFIVTFLHLVIGEMAPKSWAIAHPETALRT
IAIPARGFINLFRPLLQWINKMANDLVRKVGETPVDRAAAGGYDITDLHALIEHSRETGALDQQSAAQI
SGIIKLDKITVGQTLTASFTHSASATVAEVQAAAQRSGSLRVLIDAPSHLFPVHVRDITLGASPDEK
ASKWSRPILTVAETDTLHQALEYMRHNEQISAVLSADGKTVLGVITWDHILKYLWPASV

>RXC01366 TRANSLATE of: RXC01366.seq check: 5562 from: 1 to: 390
VSQFRRCSRPGCGKPAVATLTAYSDSTAVVGPLAPAAEPHSWDLCEHHAERITAPLGWEMLRVNDIKV
DDDEDLTALAQAQVREAGRTVSGLVPEDVGGNHPVNRSARIAEQKVHRRGHLYVVPDQDES

>RXC01372 TRANSLATE of: RXC01372.seq check: 5614 from: 1 to: 591
QDTFVLPTLPTAAGLSPARIVASISTLLDLLEADPSIISDRLEHLADCIDEVESLSPERDELVNPGRK
LRAVDHARIVHTGRDVGGLAIANVIAPIWTRRGLVSAVLDPELMESLPELRGPEPITDDIFHDPFID
DEPGVVPFRAVVWAEPEPGIPDAMAQSCDGP SKGALTQALRLLVRGQSATTYSIEEKDL

>RXC01659 TRANSLATE of: RXC01659.seq check: 8569 from: 1 to: 546
VAGVAQRFVDERIHVGLDSMPEAVTAVWMESDWVLAETIKGSTPSDWEEILRPLALLTDASFTLPPRST
RAQTLDLKHLPEPSRLKPEQPEKPAFTPNASEEDLSQPLVIRPEEPLQMPVRGVQESRGVVEPRSLGADD
VESIAEGDPERPSDLYGTRVLRDLNGQSSIFQDSTDADEPPKKW

>RXC01663 TRANSLATE of: RXC01663.seq check: 7844 from: 1 to: 858
MEISVLIIAALILVAGIVLWRADSSKQAAKKAESPVGSVAPAPVLVEEPPDPEFEPELDPEPEAQPEPE
LEVAPRFAPEPVQDLEPDQAEDIYFDDSPELDADVENALAELETEVEDYPEEPVQSEQPQAPATAEVAAD
EEQRGVDKHSFLSSLPQSRRERRRNWAAKHFFDIKEDAFLTDEWSRGAASTGAVARDVVSGMAEGYET
HLVDLAGVPMAMRRGITS DVVIDARRGEQPADPEREESDDLVEIDTVSGFRLLSTWRGLRSVLSTSAF
TSVWIPCQKL

>RXC01693 TRANSLATE of: RXC01693.seq check: 6379 from: 1 to: 1422
MNTAPFKLEADFASALPTMAAPWQGEAPNPELVI LNDDLAYSLGLDPTWLRTPEGVQFLLGLNPEPLT
KAVAQAYS GHQFGQFVASLGDGRALLLGEARSADGV LHDHILKSGSRTQFSRGADGRAVLGPVLREYII
SEAMHALGVPTTRSLAVISTGRKIQRGSVAPGAVLVRVATSLIRVGSFQYSNISGGIELSQHLANYTIT
RHFP SLVAELSAPT PATYVSLFKAILQRQADTVGKWTRLG FVHGALNTDNTLISGETVDYGPCAFMERY
RGDAKFSSIDTYGRYKFENQPMILGWNMARLVETLLPLL GATPDEGMTAAQEALVEFDDLCEQAIRKEF
ATALGLDES DTGTVEQFRELLYLHNPDIITLLRALDNTAPP SGFEAFVHDWKTQDPDIEAMRAVNPLF
IPRNHLVEAALADAVEGNLEKFHELLAAVTNPFDP TAGPDELRLPSEEGFEEDYMTFCGT

>RXC01703 TRANSLATE of: RXC01703.seq check: 3504 from: 1 to: 1113
VAWPSNAKEKLFHWHYWWQAHYLDCLVDAARRRTTKARRDRIRDITIRGISVRNVGKLT SNRYDDKAW
LALALGRAGKVRKVRTPKSLPSLEQNIVDGIDSLTGVL PWRSGETFYNVPSNGPAAIMMARTDRLEAM
KITDWIFDNLIDGDGLVMDGLMRMHGPELVRSIHPYCQGV AIGACLEIALKLRERAGLT TTVVDHWS
ADKAEDSLKYFAHIHAVVQAVSRKMTNFHGVIDWDTGDGDGGLFKGILVRYLADVAIRLPDDSPNTRET
KKIAARLVLESAESVWNHRLEVDGLPVFATDWTTDARLPQNFGLSSSSSLDLSVVRVDERDLSVQLSG
WMLMEAAAKVAEELENNNGNSYTGRSR

>RXC02254 TRANSLATE of: RXC02254.seq check: 1030 from: 1 to: 777
IAVAEEGGLWENLLQHRFGGHGALAGHALGNLVIAALTDILGTSQHALDQIAQLAGAKGRIIPVCAEPL
DLEAEVSGLDSDARVMRQVRGQVAVAAATPGQVRRVRIIPDNPEPNPAAIEAILDADLVTLGPGSWFSSV
IPHILVPGIVDALAQTKATKT VVLNLTSEPGETAGFSAERHIHVL RQHARNLQVDQVIVDAKTLSSQTE
RNHVERAARTLGAEVSFHDVQAEDGRGRFTSIHDP AKLCAALLASFAGARKR

>RXC02255 TRANSLATE of: RXC02255.seq check: 729 from: 1 to: 936
VAKNSVRAAEVSAILRFAGEMQAVGGKLVIEANLDSMQVGMRLQEFIQGLYNSRVDVHTVNPTVSRKTP
RYLVRIIDNADEIARRTGLVTRSGHVVKGLAPSVVSGTISDAEAAWRGAFLANGSLSDPGRSSSLEVLC
PGQESALALVGCARRIGIAAKTKDSRGFDRVNV RDAEAI GALLTRMGAQKTRMLWEEKRIKRESRTPQT
GLANFDDANLRRSARA AVAAAARVERAMKILGDDVPHELAEAGQLRVQHRQASLEELGRLADPQMTKDA
VAGRIRLLTMADKRAEDLKIPDTNSVVTEDLLEEI

>RXC02435 TRANSLATE of: RXC02435.seq check: 470 from: 1 to: 558

VTDNLGSTSIGDAWILYAPLMDDGGFGPLRAIGGMFLHIGPGHMLLNVLWLLGREIERDFGSALFTA
MYFVGGIGASAAVIWMDPYSPTAGASGAIYAMMAILVGLFVLRADIRAPLILIAINIAYTLMSTNVSL
WGHLGGLITGALITWPMVKAKTQRTWIIIVLIGFAVVVAAVILGIDRV

>RXC03216 TRANSLATE of: RXC03216.seq check: 470 from: 1 to: 558
MKLGLYNAIFHDRTLPEALAAIKAAGLTGIELNTGGFLPATHIPTIDDILVSDDARDEFLGIFEGTGVD
IYGLNCNGNPLHPNKAIGDKHAEDIRRSIRLAERLGQNRVVTMSGPGEPPGAKYTNWVVNAWNSAALD
VLDYQWDIAAEFWRETDRFAADHGVKVALELHPQNIVFNSADVHKLIDLTGATHVGVELDASHLFWQQM
DPIAVIDHLGELIFHAAAKDVRVNKEWAQLNGVLDNSFRRLDPSENRTNLGGDEWANEPKNSAWDFVA
LGRGHDVAYWTEFLRALHRVDPNMLVNIHEDVSLGREGVNEAAKVLI EANKALEESLVS